

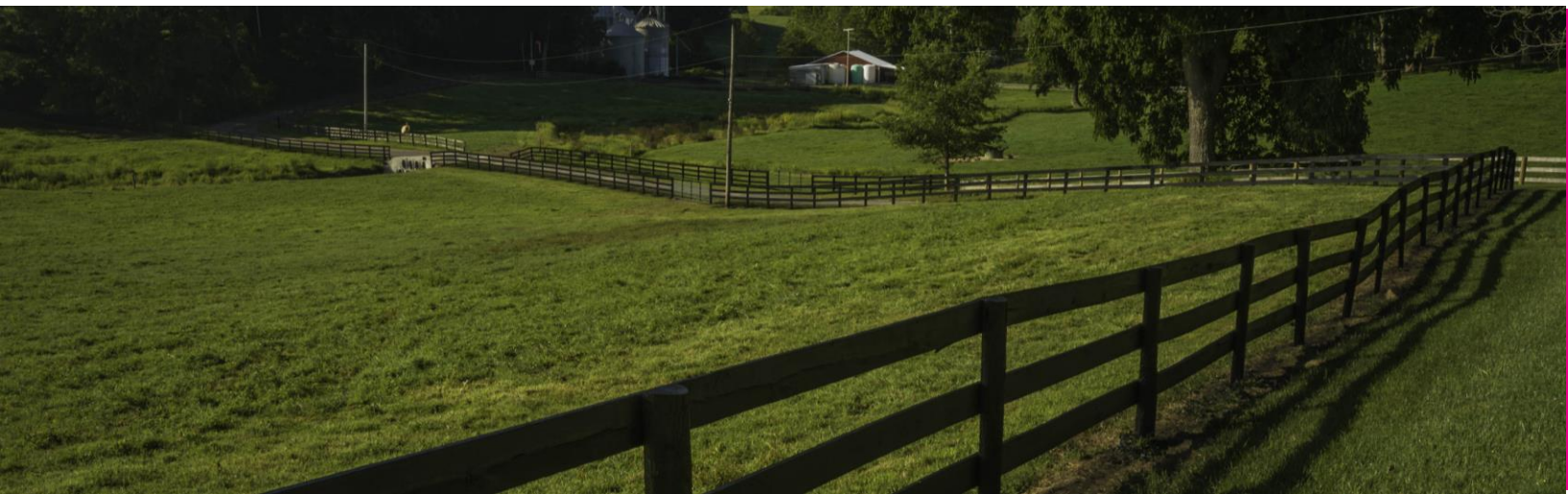


United States Department of Agriculture



# Resource Stewardship Evaluation Tool (RSET)

## Pasture Evaluations



Natural  
Resources  
Conservation  
Service

[nrcs.usda.gov/](https://nrcs.usda.gov/)

## Contents

.....	1
Resource Stewardship Overview .....	4
Client Search Overview .....	5
Client Search Walk-Through .....	5
STEP 1: Identify the Client .....	5
Step 2: Identify the Planned Land Unit .....	6
Creating a New Evaluation Overview .....	8
Creating a New Evaluation Walk-Through .....	8
Creating a New Evaluation for Mutable Land Uses .....	9
Evaluations Bar Overview .....	11
Evaluations Bar Walk-Through .....	12
Copy Evaluation Feature Overview .....	12
Copy an Evaluation to the Current PLU .....	13
Copy an Evaluation to a Different PLU (Current Client or Different Clients) .....	13
Pasture Inventory Overview .....	15
Pasture Inventory Walk-Through .....	15
Pasture Condition Score Overview .....	21
Pasture Condition Score Walk-Through .....	21
Nitrogen Overview .....	27
Grazing Nitrogen Walk-Through .....	27
Phosphorus Overview .....	29
Grazing Phosphorus Walk-Through .....	29
IPM Overview .....	31
IPM Walk-Through .....	31
WINPST Online Overview .....	35
WINPST Online Walk-Through .....	35
WINPST Manual Entry Overview .....	39
WINPST Manual Entry Walk-Through (Pasture and Range Example) .....	41
Conservation Practices Overview .....	43
Conservation Practices Walk-Through .....	43



Irrigation Overview .....	45
Irrigation Walk-Through .....	45
Aquatic Habitat Overview .....	48
Aquatic Habitat Walk-Through .....	48
Terrestrial Habitat Overview.....	51
Terrestrial Habitat Walk-Through.....	51
Additional WHEG Information .....	54
Pasture Evaluation Results Overview .....	55
Pasture Evaluation Results Walk-Through .....	55
Evaluation Point Details.....	57
Resource Concern Report .....	57
CPA-52 .....	60
Comparing Two Evaluations .....	61
Comparing Two Evaluations on the Same Evaluation PLU .....	62
Interpreting the Evaluation Results.....	63
Appendix A: Acronyms.....	64
Appendix B: Resource Stewardship Inventory Flow .....	65
Appendix C: Usage Detail Report and Hydrologic Unit Codes .....	66

**Updated October 2018**



## Resource Stewardship Overview

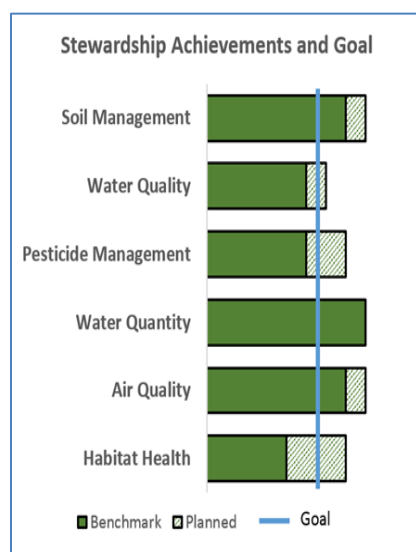


Resource Stewardship (RS) is a voluntary service provided by NRCS through a new evaluation tool. RS enhances conservation planning by benchmarking the level of resource stewardship on the land and helping NRCS clients better identify their conservation goals and improve their outcomes.

RS (also known as the Resource Stewardship Evaluation Tool or RSET) uses a web-based platform to evaluate the health of soil, water, air, and wildlife habitat. RS evaluates a user defined management system against the inherent site characteristics to perform this evaluation.

Upon the completion of RS, clients receive a report called the Resource Stewardship Evaluation (RSE) which visually graphs their stewardship achievements and suggests opportunities to improve resource stewardship. Evaluations are available for crop, pasture, range, forest, farmstead, and associated ag land uses.

If you would like a Resource Stewardship Evaluation completed on your operation, please reach out to your [local NRCS office](#).



Left: Example visual from an RSE report, highlighting where a client's operation scores on each of the criteria listed in comparison to the vertical blue threshold bar. The shaded bars suggest opportunities the client can take to meet or surpass the threshold bar and improve resource stewardship.

*Please note that to maintain and protect confidential client information, only NRCS staff and specific partners can currently access RS.* To access [Resource Stewardship](#), visit <https://rs.sc.egov.usda.gov/Splash.aspx/>.

The following instructional walk-throughs are developed for those with access to RS to use as a resource while completing evaluations, as well as for those interested in learning more about RS.



## Client Search Overview

Selecting a client and Planned Land Unit (PLU) is the first step in Resource Stewardship (RS). Please note that only NRCS staff and select partners have access to detailed client information within RS.



After logging into [Resource Stewardship](https://rs.sc.egov.usda.gov/Splash.aspx) (<https://rs.sc.egov.usda.gov/Splash.aspx>), a search bar will be displayed to search for clients and identify a Planned Land Unit (PLU) to evaluate. Access to clients is determined by individual user's role(s) in the Customer Service Toolkit (CST), managed through the zroles system.

It is important to note that a PLU must be identified and created in CST prior to running an evaluation. A PLU is a unique geographic area, defined by a polygon, which has common land use and is owned, operated, or managed by the same cooperator(s). The PLU is the minimum unit for planning and evaluation. RS pulls PLUs from CST. PLUs must be in Plan (green) or in Locked (red) status and will be imported from an existing conservation map plan by searching for the land user's name. PLUs may or may not correspond to the Farm Service Agency (FSA) tracts and fields identified in the Common Land Unit (CLU) layer maintained by FSA depending on how the PLUs were setup in toolkit by the conservation planner. Any number of planned land units may be evaluated individually or together in an operation evaluation. When performing the evaluation, adjacent land which is outside of the PLU but integral to the PLU management system will also be considered when evaluating the PLU. For instance, management of field bordering vegetation and adjacent conservation practices, such as windbreaks, may also provide wildlife benefits, as well as have an effect on soil, water, and air quality.

## Client Search Walk-Through


### STEP 1: Identify the Client

1. Search the National Planning and Agreements Database (NPAD) for a client by entering the client name in the search string and clicking the **Search Clients** button. The returned client results can be narrowed down to clients in state and county or the initial client search can specifically search for clients by state and county. Uncheck the **Exact Word Match** box for clients with an ampersand (&) in their name.






**Client**

Enter Search String :  [Search Clients](#) ☒ Exact Word Match


State:  County:

If numerous clients are returned, the client list can be sorted numerically or alphabetically by clicking on the column header.

**Client**

Enter Search String :  [Search Clients](#) ☒ Exact Word Match


State:  County:

**Clients** 


Name	Street Address	City	State	Zip Code	Phone
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	

2. Select the client by clicking on the client's name.

**Client**


Enter Search String :  [Search Clients](#) ☒ Exact Word Match

State:  County:

**Clients** 

Name	Street Address	City	State	Zip Code	Phone
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	

Existing PLUs (if any) and operation evaluations will be displayed.


**Evaluations for ROSE LAKE PLANT MATERIAL CENTER** 

Status	Result Type	Name	Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario 2	11769/ 2	Crop	1.37	NO	10/17/2017	6897
<input type="checkbox"/>	Standard	Alt Scenario - new PLU	11769/ 5	Crop	11.2	NO	11/13/2017	6898
<input checked="" type="checkbox"/>	Standard	Alt Scenario	11769/ 6	Crop	5.01	NO	12/29/2017	6899

Page 1 of 1 Found: 4

## Step 2: Identify the Planned Land Unit

1. Click on the **View Client Land Units** button  to view the client's land units.

**Clients** 

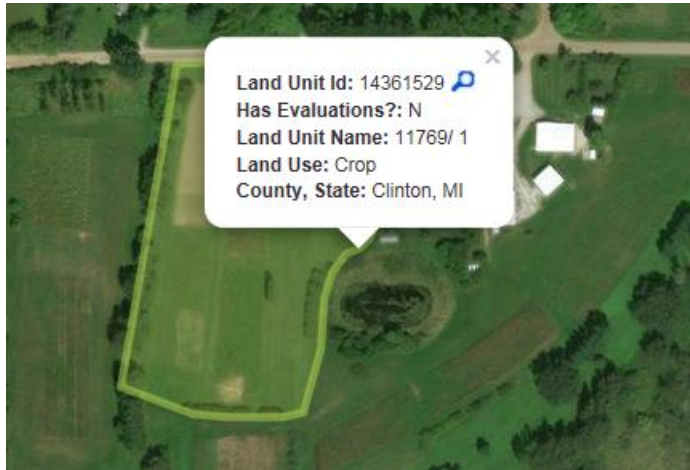
Name	Street Address	City	State	Zip Code
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823
NRCS/GREAT BASIN PLANT MATERIAL CEN	FALLON	NV	89406	

[View Client Land Units](#)



The land units can be sorted numerically or alphabetically by clicking the up or down arrow located on the column header.

2. If several land units are associated with this client, determine which one to select. Click on a land unit in the display area to view the attributes. To dismiss the popup, click the x located in the upper right corner or click in the map area off of the land unit.



### *Navigating the Display Area*

Zoom In	Click the Zoom In  button or roll the mouse scroll wheel away from you.
Zoom Out	Click the Zoom Out  button or roll the mouse scroll wheel towards from
Pan	Hold down the left mouse button or scroll wheel and move the mouse.

3. Click the **View or Add Evaluations** button associated with the selected land unit.

Land Details for ROSE LAKE PLANT MATERIAL CENTER						
Land Units for ROSE LAKE PLANT MATERIAL CENTER						
Id		Eval?	Land Unit Name	County, State	Tract	Land Use
14361529		N	11769/ 1	Clinton, MI	11769	Crop
14361536		Y	11769/ 2	Clinton, MI	11769	Crop
14361538		N	11769/ 3	Clinton, MI	11769	Crop
14361695		N	11769/ 4	Clinton, MI	11769	Crop
14361708		Y	11769/ 5	Clinton, MI	11769	Crop

An Evaluations tab is added.

Search

Client

PLU: ROSE LAKE PLANT MATERIAL CENTER

Evaluations: 11769/ 1

11769/ 1 Evaluations

Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
Page 1 of 0							

No results found.



## Creating a New Evaluation Overview

RS allows users to create two different types of evaluations: a benchmark and an alternate scenario. A benchmark designation is meant to act as a starting point for conservation planning. RS envisions the opportunities for evaluating multiple alternative scenarios as part of the planning process, as well as documenting implementation and effects as conservation practices and activities are applied.

Alternate scenarios may be related to specific conservation plans, programs, or evaluation dates documenting continuous improvement. The user should select a name for the evaluation which appropriately indicates its relationship.

## Creating a New Evaluation Walk-Through

Once a client and planned land unit (PLU) have been selected, the Evaluations tab will be added on the Client bar in the Search tab.



1. Click the **Add New Evaluation**  button.



2. The Add New Evaluation dialog opens. In the Add New Evaluation dialog, enter the **evaluation name**, **date**, and answer **Yes** if this is the benchmark evaluation. The benchmark represents the current condition. There can only be one benchmark per PLU but there can be many alternate scenario evaluations. The date for the evaluation defaults to the date it was create in RS. The user may modify this date to reflect when the field evaluation was conducted.

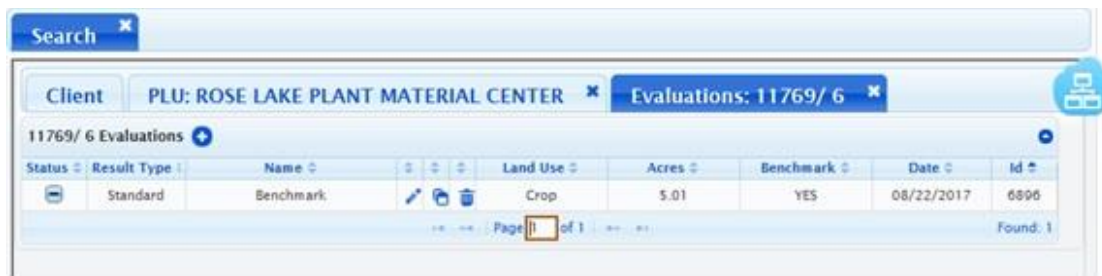
A screenshot of the 'Add New Evaluation' dialog box. It has a title bar 'Add New Evaluation'. Inside, there are three fields: 'Name:' with the text 'Benchmark', 'Date:' with the text '08/22/2017', and 'Benchmark:' with a dropdown menu showing 'YES'. At the bottom of the dialog are two buttons: 'Submit' and 'Cancel'.

3. Click the **Submit** button when done.





The evaluation is added to the evaluation list.



Search

Client: PLU: ROSE LAKE PLANT MATERIAL CENTER Evaluations: 11769/ 6

11769/ 6 Evaluations

Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
Standard	Benchmark		Crop	5.01	YES	08/22/2017	6896

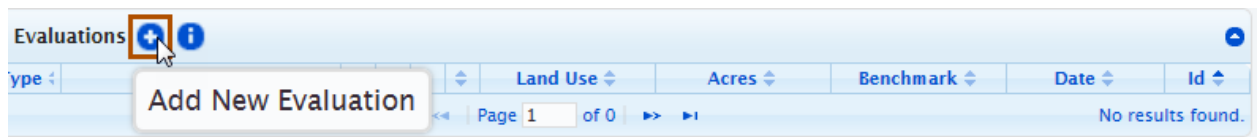
Page 1 of 1 Found: 1

## Creating a New Evaluation for Mutable Land Uses

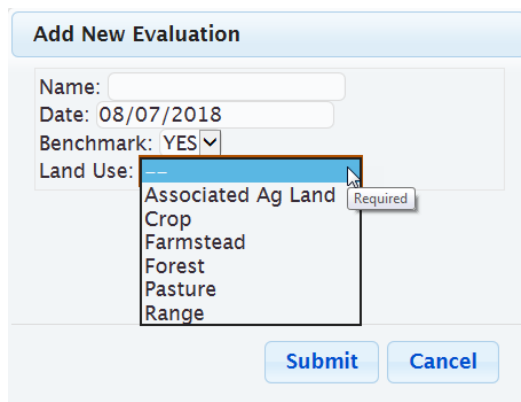
For land uses categorized in NPAD as protected, undetermined, or other rural land, RS will offer the user the option to select a directly supported land use. In the example below, an evaluation on a protected land use PLU is selected for a client.



1. After selecting the client and a PLU on a mutable land use (protected, undetermined, or other rural land), from the Evaluations tab, select the **Add New Evaluation** button.



2. The Add New Evaluation dialogue opens. Enter the **evaluation name**, **date**, and answer **Yes** if this is the benchmark evaluation. Because this is an evaluation on a mutable land use (protected, undetermined, or other rural land), select the directly supported **land use** type (associated ag land, crop, farmstead, forest, pasture, or range).



Add New Evaluation

Name:

Date: 08/07/2018

Benchmark: YES

Land Use:





















- Associated Ag Land
- Crop
- Farmstead
- Forest
- Pasture
- Range

Submit Cancel



3. Click **Submit** when done.

The evaluation is added to the evaluation list. Because the directly supported land use selected was “pasture”, note that the land use is displayed as “pasture (protected)”.

Evaluations  									
Status 	Result Type 	Name 				Land Use 	Acres 	Benchmark 	Date 
	Standard	Protected Eval				Pasture (Protected)	0.1	YES	08/07/2018
<div>  Page 1 of 1  </div>									

All evaluations on a given PLU must be of the same land use type.



## Evaluations Bar Overview

Once an evaluation has been created, it will appear in the Evaluations bar list under the Search tab. The Evaluations bar is where the user can select previous evaluations that have been started or completed for the client. The Evaluations bar displays the result type, the name, the land unit, the land use, acres, benchmark, date, and Id. The Evaluations bar also allows the user to edit, copy, or delete evaluations.

**Result type:** Displays standard or alternative evaluations based on whether the user selected final result type (alternative evaluations utilize input from stand alone tools).

**Name:** User defined

**Land Unit:** Customer Service Toolkit (CST) PLU identifying number, typically the FSA tract/field number

**Acres:** Size of PLU

**Benchmark:** Yes/No flag identifying benchmark status

**Date:** Date evaluation performed (default date is the date evaluation was created but this may be modified by user to reflect the date the evaluation was performed in the field)


**Id:** RS identifying number for PLU



## Evaluations Bar Walk-Through


Click on the desired evaluation to activate it.

Client

Enter Search String : 


☒ Exact Word Match

State: 
County:

Clients 

Name	Street Address	City	State	Zip Code	Phone
JIMMY CARTER PLANT MATERIAL CENTER	295 MORRIS DR	AMERICUS	GA	31719	--
BIG FLATS PLANT MATERIAL CENTER	3266A STATE ROUTE 352	CORNING	NY	14830	--
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	--
NRCS/GREAT BASIN PLANT MATERIAL CENTI	111 SHECKLER RD	FALLON	NV	89406	:
KIKA DE LA GARZA PLANT MATERIAL CENTE	3409 N FM 1355	KINGSVILLE	TX	78363	:


Page 1 of 1
Found: 5

Evaluations for ROSE LAKE PLANT MATERIAL CENTER 

Status	Result Type	Name	Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	11769/ 6	Crop	5.01	YES	08/22/2017	6896

Evaluations can be edited, copied, and pasted to another PLU, or can be deleted. Select the appropriate button to edit, copy, or delete an evaluation.

 Edit Evaluation: Feature allows user to edit name and date of evaluation

 Copy Evaluation: Feature allows user to copy an evaluation to run alternate scenarios on the existing PLU or transfer the management system defined in this evaluation to a new PLU

 Delete Evaluation: Permanently deletes evaluation

### Copy Evaluation Feature Overview

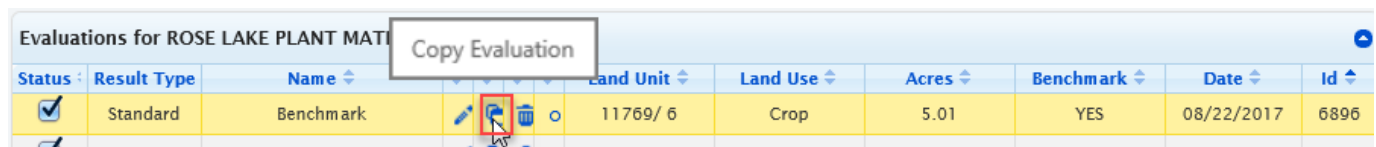
The copy evaluation feature is available to copy an evaluation to evaluate and compare an alternative scenario or take the current management system that was evaluated and apply it to a different PLU. This feature allows copying to either the current client's PLU or any other PLU as identified by the user.





Any number of alternative evaluations or alternative scenarios may be attached to a PLU. Comparisons may be made against the benchmark evaluation or other alternative evaluations. In the evaluation results section, the user may directly compare two different evaluations on the same report.



## Copy an Evaluation to the Current PLU

1. Copy an evaluation by clicking the **Copy Evaluation** button.



Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	   	11769/ 6	Crop	5.01	YES	08/22/2017	6896

2. This opens an evaluation dialogue. To create an alternative scenario on the existing plan unit, enter the **Name** of the evaluation and edit the **Date** or **Benchmark** as appropriate. Click **Submit** when finished.

**Copy Evaluation**

Name:

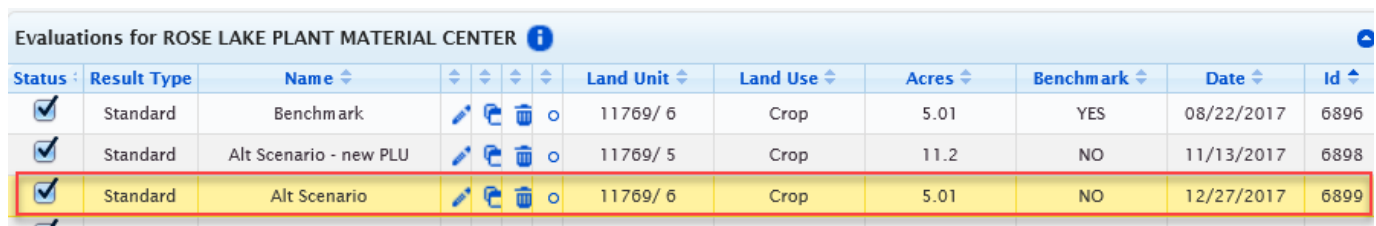
Date:













Benchmark:

Copy Evaluation to Same Land Unit:

The tool defaults to copying an evaluation on the existing PLU.

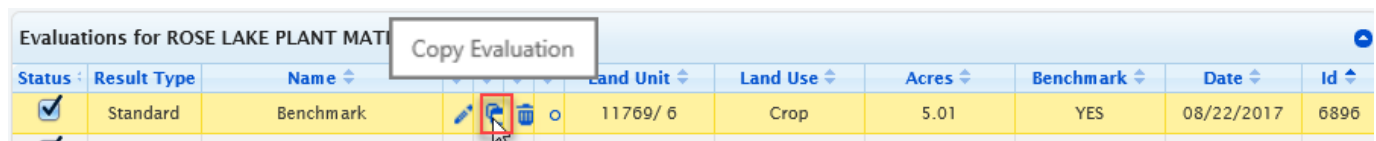
3. Click on the evaluation to activate it.







Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	   	11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario - new PLU	   	11769/ 5	Crop	11.2	NO	11/13/2017	6898
<input checked="" type="checkbox"/>	Standard	Alt Scenario	   	11769/ 6	Crop	5.01	NO	12/27/2017	6899

## Copy an Evaluation to a Different PLU (Current Client or Different Clients)

1. Copy an evaluation by clicking the **Copy Evaluation** button.



Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	   	11769/ 6	Crop	5.01	YES	08/22/2017	6896





2. This opens an evaluation dialogue. Enter the **Name** of the evaluation and edit the **Date** or **Benchmark** as appropriate. To create an alternative scenario on a different PLU, select No for **Copy Evaluation to Same Land Unit**.

### Copy Evaluation

Name: Alt Scenario-new PLU  
Date: 11/13/2017  
Benchmark: NO   
Copy Evaluation to Same Land Unit: NO

3. The evaluation dialogue box will display new land units under the existing client and the search feature to look for another client. Select either the different PLU or search for a new client and select the target PLU for that client. Click **Submit** when finished.

### Copy Evaluation

Name: Alt Scenario-new PLU  
Date: 11/13/2017  
Benchmark: NO   
Copy Evaluation to Same Land Unit: NO

Enter Search String:  [Search Clients](#) ☒ Exact Word Match

Land Units for ROSE LAKE PLANT MATERIAL CENTER					
Id	Eval?	Land Unit Name	County, State	Tract	Land Use
14361529	N	11769/ 1	Clinton, MI	11769	Crop
14361536	N	11769/ 2	Clinton, MI	11769	Crop
14361538	N	11769/ 3	Clinton, MI	11769	Crop
14361695	N	11769/ 4	Clinton, MI	11769	Crop
14361708	Y	11769/ 5	Clinton, MI	11769	Crop
14361713	Y	11769/ 6	Clinton, MI	11769	Crop
14361720	Y	11769/ 35	Clinton, MI	11769	Farmstead
14361745	N	11769/ 34	Clinton, MI	11769	Forest
14361751	N	11769/ 33	Clinton, MI	11769	Crop
14361759	N	11769/ 32	Clinton, MI	11769	Associated Ag Land

Page 1 of 1 Found: 1

[Submit](#) [Cancel](#)

4. Click on the evaluation to activate it.

Evaluations for ROSE LAKE PLANT MATERIAL CENTER											
Status	Result Type	Name				Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark				11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario - new PLU				11769/ 5	Crop	11.2	NO	11/13/2017	6898



## Pasture Inventory Overview

The Pasture Inventory evaluates the land units for site-specific vulnerabilities, which may affect the overall grazing program that includes all pastures and grazed lands in the Grazing Operation. Questions related to the overall Grazing Operation are answered in the Grazing Operation Evaluation (GOE). The Pasture Inventory results can differ between pastures in the same operation as the sensitivity of the land affects the results of each pasture. This can help prioritize the implementation of pasture improvements.

## Pasture Inventory Walk-Through

1. From the **Search** bar, select the desired evaluation for the client.



Status	Name	Date	Land Use	Acres	Benchmark	Id
	RSET Benchmark	05/23/2017	Pasture	53.81	YES	

Page 1 of 1 Found: 1

2. Click on the **Inventory** tab or select Inventory on the **Roadmap** .



3. Enter the PLU Grazing Inventory information and click the **Save** button.

Note: If the value field is red it is required.



## PLU Grazing Inventory

Online Help: Go to [Pasture Inventory Help](#)

Note: All fields are required unless otherwise noted.

Desired Stewardship Level:	--	▼
What is the maximum irrigation per year:		in.
Predominant Forage Type:	--	
Estimated Forage Removed per year:		
Forage Units:	--	▼
Has gully erosion been controlled to the Field Office Technical Guide specification ⓘ :	--	▼
There is evidence of wind erosion areas that have not been stabilized (dunes, blowout areas, sand drifts, etc) ⓘ :	--	▼
Desirable forage/browse plants have decreased over time ⓘ :	--	▼
Invasive or other undesirable plants that reduce the amount and/or quality of forage for livestock or wildlife are increasing ⓘ :	--	▼
Location and condition of structural improvements/infrastructure have been mapped (eg., fences, roads, water troughs and tanks, etc) ⓘ :	--	▼
A forage inventory has been completed ⓘ :	--	▼
Stocking Rate is appropriate to provide Soil Cover, Protect Water Quality, and provide for appropriate livestock growth/production ⓘ :	--	▼
Animal Distribution is appropriate to provide Soil Cover and Protect Water Quality ⓘ :	--	▼
Is manure applied to frozen ground:	--	▼
Bank Condition (streams, shorelines, or water conveyance channels):		

[Save](#)

**Desired Stewardship Level:** National Resource Stewardship

**What is the maximum irrigation per year:** Numeric value (in inches)

**Predominant Forage Type:** Select answer from drop-down

- a. Annual Forbs, cool season
- b. Annual Forbs, warm season
- c. Annual Grasses, cool season
- d. Annual Grasses, warm season
- e. Leguminous Forbs, cool season



- f. Leguminous Forbs, warm season
- g. Non-Leguminous Forbs, cool season
- h. Non-Leguminous Forms, warm season
- i. Perennial Bunch and Sod Grasses
- j. Perennial Bunchgrasses
- k. Perennial grass & Perennial legume mixed, cool, & warm season
- l. Perennial Sod Grasses

**Estimated Forage Removed per year:** Numeric value (select measuring unit in following question)

**Forage Units:** Select answer from drop-down

- a. Acres/Animal Unit Day
- b. Acres/Animal Unit Month
- c. Acres/Animal Units/Year
- d. Animal Units Days/Acre
- e. Animal Unit Month/Acre
- f. Animal Units/Acre/Year
- g. Pounds/Acre/Year
- h. Tons/Acre/Year

**Has gully erosion been controlled to the Field Office Technical Guide specification:** Yes/No

Note: There is evidence of active, uncontrolled soil erosion

**There is evidence of wind erosion areas that have not been stabilized (dunes, blowout areas, sand drifts, etc):** Yes/No

Note: There is evidence of active, uncontrolled soil erosion

**Desirable forage/browse plants have decreased over time:** Yes/No

Note: Desirable forage/browse plants can be native or introduced species, but do not include plants recognized as invasive (per Presidential Executive Order 13112), noxious or toxic.

This applies to the local environment and in respect to grazing species. This can be a comparison of current species composition to previous years or the seeding plan. This is more easily looked at from the aspect of intermediate and undesirable forage species increasing as desirable species are being grazed out.

**Invasive or other undesirable plants that reduce the amount and/or quality of forage for livestock or wildlife are increasing:** Yes/No



Note: Invasive plants include those meeting the definition in Presidential Executive Order 13112. Undesirable plants are simply those not considered to be the best forage species available for livestock and/or wildlife consumption, due to factors such as poor quality, anti-foraging characteristics, etc.

Examples are plants such as woody invaders, noxious weeds, and toxic plants that are rejected by livestock or have undesirable side effects when eaten.

**Location and condition of structural improvements/infrastructure have been mapped (e.g., fences, roads, water troughs and tanks, etc.):** Yes/No

Note: The producer must be able to show written documentation supporting a Yes response.

This is usually completed by a conservation planner on an initial or follow-up site visit.

**A forage inventory has been completed:** Yes/No

Note: The forage inventory includes: species composition (or functional group composition); total plant production amount; available forage production amount. Actual clipping data, ocular estimates, and other production estimation sources (Extension, ESDs, etc.)

**Stocking Rate is appropriate to provide Soil Cover, Protect Water Quality, and provide for appropriate livestock growth/production:** Yes/No

This is usually completed by a conservation planner after site visit(s) and information is shared from the producer.

**Animal Distribution is appropriate to provide Soil Cover and protect Water Quality:** Yes/No

Note: The producer must be able to show written documentation supporting a Yes response.

This is usually assessed by a conservation planner during site visit(s). S/He will be looking for areas frequented by livestock to the point of degradation, such as shade and watering sources. Livestock trails to water/feed sources and shade also help indicate if animal distribution is not appropriate

**Is manure applied to frozen ground:** Yes/No

This would also include bio-solids and compost. Applications are usually applied with





a manure spreader and are not from the livestock being on the pasture. The exception for on-site manure would be from feeding areas or other heavy use areas that are scraped and spread.

**Bank Condition (streams, shorelines, or water conveyance channels):** Select answer from drop-down

- a. Not Applicable (no water features/banks)
- b. Banks are stable; protected by roots of natural vegetation, wood and rock. No fabricated structures present on bank. No excessive erosion or bank failures. No recreational or livestock access.
- c. Banks are moderately stable, protected by roots of natural vegetation, wood, or rock or a combination of materials. Limited number of structures present on bank. Evidence of erosion or bank failures, some with reestablishment of vegetation.
- d. Banks are moderately unstable; very little protection of banks by roots of natural wood, vegetation, or rock. Fabricated structures cover more than half of reach or entire bank. Recreational and/or livestock use are contributing to bank instability.
- e. Banks are unstable; no bank protection with roots, wood, rock, or vegetation. Riprap and/or other structures dominate banks. Numerous active bank failures. Recreational and/or livestock use are contributing to bank instability.

Bank condition is usually evaluated by a conservation planner during a site visit.

Resultant Factor and Threshold values are displayed.

Factor values determined:

Soil Leaching Potential

Soil Runoff Potential

R Factor

Threshold values determined:

Sediment in Surface Water

Surface Phosphorus Loss

Subsurface Phosphorus Loss

Surface Nitrogen Loss

Subsurface Nitrogen Loss

Pesticide Management (Leaching)



Pesticide Management (Solution Runoff)  
Pesticide Management (Adsorbed Runoff)  
Pesticide Management (Drift)  
Land Health

Management Points are displayed for the following:

PLU Grazing Inventory  
Residue – Sediment in Surface Water  
Residue – Surface Phosphorus Loss  
Residue – Surface Nitrogen Loss  
Residue – Subsurface Nitrogen Loss  
Residue – Pesticide Management (Leaching)  
Residue – Pesticide Management (Solution Runoff)  
Residue – Pesticide Management (Adsorbed Runoff)  
Residue – Pesticide Management (Drift)  
Winter Cover – Sediment in Surface Water  
Winter Cover – Surface Phosphorus Loss  
Winter Cover – Surface Nitrogen Loss  
Winter Cover – Subsurface Nitrogen Loss  
Winter Cover – Pesticide Management (Leaching)  
Winter Cover – Pesticide Management (Solution Runoff)  
Winter Cover – Pesticide Management (Adsorbed Runoff)  
Winter Cover – Pesticide Management (Drift)  
Nutrient Management – Surface Nitrogen Loss  
Nutrient Management – Subsurface Nitrogen Loss  
Nutrient Management – Surface Phosphorus Loss  
Nutrient Management – Subsurface Phosphorus Loss

The Aquatic Habitat, Terrestrial Habitat, IPM, WINPST, Conservation Practices and Pasture Condition Score tabs are added.



Navigate through the assessment by clicking on the appropriate tab or by clicking on the **Roadmap** and choosing the appropriate assessment.



## Pasture Condition Score Overview

Pasture condition scoring can be useful in deciding planning management or improvement actions. NRCS has a [Guide to Pasture Condition Scoring](#) and a [Pasture Condition Scoresheet](#) (PCS) that provide overall agency guidance on how to score pasture condition. Information from the PCS will be entered for the following 14 questions in Resource Stewardship. Answer choices “1-5” on the PCS correlate to “a-e” in the RS drop-down boxes.

## Pasture Condition Score Walk-Through

1. Click the **Pasture Condition Score** tab or select Pasture Condition Score in the **Roadmap**.

A horizontal navigation bar with several tabs. The tabs are: Search, Inventory, Aquatic Habitat, Terrestrial Habitat, Nitrogen, Phosphorus, Irrigation Management, IPM, WINPST, Conservation Practices, and Pasture Condition Score. The 'Pasture Condition Score' tab is highlighted with a blue background and a white 'x' icon in the top right corner.

2. Enter the information on the Grazing Pasture Condition Score page and click the **Save**.

A screenshot of the 'Grazing Pasture Condition Score' form. At the top, it says 'Online Help: Go to PCS Help'. Below that is a note: 'Note: All fields are required unless otherwise noted.' The form has a section for 'Pasture Condition Score (PCS) status:' with a dropdown menu showing 'National PCS'. Below that is a section for 'What year was Pasture Conditioning Score (PCS) completed:' with a text input field. The main part of the form consists of 14 numbered questions, each with a corresponding text input field: 1. Percent Desirable Plants, 2. Plant Cover, 3. Plant Diversity, 4. Ground Cover Residue, 5. Standing Dead Forage, 6. Plant Vigor, 7. Percent Legume, 8. Uniformity of Use, 9. Livestock Concentration, 10. Soil Compaction, 11. Sheet and rill erosion, 12. Wind erosion, 13. Streambank or shoreline erosion, and 14. Gully Erosion. At the bottom right of the form is a blue 'Save' button.

**Pasture Condition Score (PCS) status:** Select answer from drop-down

- a. Insufficient information to complete a PCS
- b. National PCS
- c. State Alternative PCS

If a state/regional level Pasture Condition Scoresheet is used instead of



the national, enter the year the PCS was completed and the PCS score.

**Grazing Pasture Condition Score**  
Online Help: Go to [PCS Help](#)  
  
Note: All fields are required unless otherwise noted.  
Pasture Condition Score (PCS) status:   
What year was Pasture Conditioning Score (PCS) completed:   
Enter PCS Score:

**What year was Pasture Conditioning Score (PCS) completed:** 4 digit year value

1. **Percent Desirable Plants:** Select answer from drop-down
  - a. Desirable species make up <20% of the stand. Annual weeds and/or woody species dominate.
  - b. Desirable species make up 20-40% of the stand. Mostly weedy annuals and/or woody species present and expanding. Shade is a factor.
  - c. Desirable species make up 40-60% of the stand. Undesirable broadleaf weeds and annual weedy grasses invading. Some woodies.
  - d. Desirable species make up 60-80% of the stand. Remainder mostly intermediates and a few undesirables present.
  - e. Desirable species exceed 80% of the stand. Scattered intermediates.
2. **Plant Cover:** Select answer from drop-down
  - a. Canopy <50%. Basal area <15%. Photosynthetic area very low. Very little plant cover to slow or stop runoff.
  - b. Canopy 50-75%. Basal area 15-25%. Photosynthetic area low. Vegetal retardance to runoff low.
  - c. Canopy 70-90%. Basal area 25-35%. Most forages grazed close, little leaf area to intercept sunlight. Moderate vegetal retardance.
  - d. Canopy 90-95%. Basal area 35-50%. Spot grazed low and high so some loss of photosynthetic potential. Vegetal retardance still high.
  - e. Canopy 95-100%. Basal area >50%. Forages maintained in leafy condition for best photosynthetic activity. Very thick stand, slow, or no runoff flows.
3. **Plant Diversity:** Select answer from drop-down
  - a. One dominant (>75% or DM wt.) forage species. Or, over 5 forage species (all <20%) from one dominant functional group, not evenly grazed – poorly distributed.
  - b. Two to five forage species from one dominant functional group (.75% of DM wt.). At least one avoided by livestock permitting presence of mature seed stalks. Species in patches.
  - c. Three forage species (each =>20% DM wt.) from one functional group. None avoided. Or, one forage species from each of two functional groups, both



- supply 25-50% of DM weight.
- d. Three or four forage species (each  $\Rightarrow$  20% DM wt.) with at least one being a legume. Well intermixed compatible growth habit, and comparable palatability.
  - e. Four or five forage species representing three functional groups (each  $\Rightarrow$  20% of DM wt.) with at least one being a legume. Intermixed well, compatible growth habit, and comparable palatability.
4. **Ground Cover Residue:** Select answer from drop-down
- a. No identifiable residue present on soil surface. Or, heavy thatch evident ( $>1$  inch thick).
  - b. 1-10% covered with dead leaves or stems. Or, thatch 0.5-1 inch thick.
  - c. 10-20% covered with dead residue. Or, slight thatch buildup but  $<0.5$  inch thick.
  - d. 20-30% covered with dead residue. No thatch present.
  - e. 30-70% covered with dead residue, but thatch buildup.
5. **Standing Dead Forage:** Select answer from drop-down
- a.  $>25\%$  of air dry weight.
  - b. 15-25% of air dry weight.
  - c. 5-15% of air dry weight.
  - d. Some present, but  $<5\%$  of air dry weight.
  - e. None available to grazing animal.
6. **Plant Vigor:** Select answer from drop-down
- a. No recovery after grazing or pale yellow or brown, or permanent wilting, or plant loss due to insects or disease, exercise lot only. Or, lodged, dark green overly lush forage. Often avoided by grazers.
  - b. Recovery after grazing takes 2 or more weeks longer than normal, or yellowish-green leaves, or major insect or disease yield loss, or plants wilted most of day. Productivity very low.
  - c. Recovery after grazing takes 1 week longer than normal, or urine/dung patches dark green in contrast to rest of plants, or minor insect or disease loss, or mid-day plant wilting. Yields regularly below site potential.
  - d. Recovery after grazing takes 1-2 days longer than normal, or light green plants among greener urine and dung patches, or minor insect or disease damage. No plant wilting. Yields near site potential.
  - e. Rapid recovery after grazing. Healthy green color. No signs of insect or disease damage. No leaf wilting. Yields at site potential for the species adapted to site's soil and climate.
7. **Percent Legume:** Select answer from drop-down
- a.  $<10\%$  by weight. Or, greater than 60% of bloating legumes.
  - b. 10-19% legumes. Or, losing grass, 40-60% spreading legumes.
  - c. 20-29% legumes.
  - d. 30-39% legumes.





- e. 40-60% legumes. No grass loss; grass may be increasing
8. **Uniformity of Use:** Select answer from drop-down
- a. Little-grazed patches cover over 50% of the pasture. Mosaic pattern throughout or identifiable areas of pasture avoided.
  - b. Little-grazed patches cover 25-50% of the pasture either in a mosaic pattern or obvious portion is not frequented.
  - c. Little-grazed patches cover 10-25% of the pasture either in a mosaic pattern or obvious portion is not frequented.
  - d. Little-grazed patches minor sports where isolated forage species is rejected. Urine and dung patches avoided.
  - e. Rejected areas only at urine and dung patches. No forage species rejection.
9. **Livestock Concentration:** Select answer from drop-down
- a. Livestock concentration areas cover >10% of the pasture; or all convey contaminated runoff directly into water channels.
  - b. Livestock concentration areas and trails cover 5-10% of the pasture; most close to water channels and drain into them unbuffered.
  - c. Isolated livestock concentration areas and tails cover <5% of the area, one close to water channel and drains into it unbuffered.
  - d. Some livestock trails and one or two small concentration areas. Buffer areas between them and channels.
  - e. No presence of livestock concentration areas or heavy use areas sited or treated to minimize contaminated runoff.
10. **Soil Compaction:** Select answer from drop-down
- a. Infiltration capacity and surface runoff severely affected by heavy compaction. Excessive livestock traffic killing plants over wide areas. Very hard to push probe into soil without damaging the probe.
  - b. Infiltration capacity lowered and surface runoff increased due to large areas of bare ground and dense compaction layer at the surface. Livestock trails common throughout. Off-trail hoof prints common. Hard to push probe past compacted layer.
  - c. Infiltration capacity lowered and surface runoff increased due to plant cover loss and soil compaction by livestock hooves. Soil resistant to soil probe entry at one or more depths within plow depth.
  - d. Infiltration capacity lowered and surface runoff increased due to reduced vegetal cover/retardance. Probe enters soil easily except at rocks. Scattered signs of livestock trails and hoof prints, confined to lanes or small, wet areas.
  - e. Infiltration capacity and surface runoff are equal to that expected for an ungrazed meadow; not affected by livestock traffic
11. **Sheet and rill erosion:** Select answer from drop-down
- a. Sheet and rill erosion is active throughout the pasture; rills 3-8 inches deep at close intervals and/or grazing terracettes are closely spaced with some



- slope slippage.
- b. Most sheet and rill erosion confined to steepest terrain of unit; well defined rills 0.5-3 inches deep at close intervals and/or grazing terracettes present.
- c. Most sheet and rill erosion confined to heavy use areas, especially in loafing areas and water sites; rills 0.5-3 inches deep. Debris fans at downslope edge.
- d. No current formation of rills; some evidence of past rill formation, but are grassed. Scattered debris dams of littler present occasionally.
- e. No evidence of current or past formation of sheet flow or rills.

**12. Wind Erosion:** Select answer from drop-down

- a. Blowouts or dunes forming or present.
- b. Soil swept from the established pasture being rated causing plant death by burial or abrasion.
- c. Soil swept from adjacent fields or pasture during seedbed preparation and seedling growth to pasture plant death by burial or abrasion.
- d. Some vegetation debris windrowed. Some dust deposition from offsite source. Minor wind damage to foliage.
- e. No visible signs of windblown soil or trash. No wind related leaf damage.
- f. Not applicable

**13. Streambank or shoreline erosion:** Select answer from drop-down

- a. Streambanks most bare and sloughing. No native streambank or shoreline vegetation remaining.
- b. Streambanks are heavily grazed and trampled all over. Many are actively eroding laterally. Little native streambank or shoreline vegetation. Bank sloughing common.
- c. Streambanks are closely grazed, but few are stable. Some native streambank or shoreline vegetation remaining. Livestock enter only at specific points, but heavily used. Remote alternative water site present.
- d. Streambanks are grazed but stable. Mix of pasture plants and native water's edge species. Muddy livestock stream crossing(s) or pond entrance(s) not used heavily. Alternative water sites present.
- e. Streambanks ungrazed or grazed infrequently. Abundant streambank or shore loving vegetation. Gravelly or constructed stable livestock stream crossing(s) or watering ramp(s). Or, alternative water sources present and close-by.
- f. Not applicable.

**14. Gully Erosion:** Select answer from drop-down

- a. Mass movement of soil, rock, plants, and other debris; occurrence of landslides, debris avalanches, slumps and earthflow, creep and debris torrents. Found in mountainous or very hilly terrain.
- b. Gully(s) advancing upslope cutting long channel(s). Revegetation difficult without using constructed structures and livestock exclusion; continuous gully(s) with many finger-like extensions into the hillside.



- c. Gully(s) present with scattered active erosion, vegetation missing at heavy use slopes and/or on bed below overfalls. New eroding channels present and new overfalls appearing along sides and bed of main channel.
- d. One or more existing stable gullies present, vegetation covers gully bottom and slopes well; no visual signs of active cutting at gully head or sides. Some soil moved in channel bottom.
- e. No gullies present; natural drainage ways are stable grassed channels. Spring or seep fed bare channels are small and stable, often covered with overhanging vegetation
- f. Not applicable

Management Points are displayed for the following:


Pasture Management Score



## Nitrogen Overview

The Nitrogen section in Resource Stewardship is only completed for Crop and Pasture evaluations. Both nitrogen and phosphorus comprise the nutrient management information captured in Resource Stewardship.

### Grazing Nitrogen Walk-Through

1. Open the **Roadmap**  and select Nitrogen or click on the **Nitrogen** tab at the top of the page.
2. Answer the questions for Grazing Nitrogen Management and click **Save**.

### Grazing Nitrogen Management

Online Help: Go to [Nitrogen Help](#)

Note: All fields are required unless otherwise noted.

Is Nitrogen applied to this pasture (in addition to that supplied via the waste of grazing animals):

Amount of Nitrogen applied:  lbs/acre

First Nitrogen application relative to active growing season:

Split Application:

Is first application <= 40 lbs N/acre:

Total number of splits >= 3:

Nitrogen Application method:

[Save](#)

**Is Nitrogen applied to this pasture:** Yes/No/Yes, but no detail available

The “Yes, but no detail available” resulting management points are zero or negative.

**Amount of Nitrogen applied:** Amount lbs/acre

**First Nitrogen application relative to active growing season:** >30 days after the active growing season ends; >30 days before active growing season; > 7 but <=30 days before active growing season; During the active growing season; End of active growing season to 30 days after the end of growing season.

**Split Application:** Yes/No

**Nitrogen application method:** Fertigation; Immediate incorporation, banded, or injected; Surface application with incorporation (within 48 hours);



Surface broadcast with incorporation (within 24 hours); Surface broadcast, no incorporation

A Nitrogen Supplied/Removed Ratio will be established and Management Points will be returned for the following:

Nutrient Management – Subsurface Nitrogen Loss

Nutrient Management – Surface Nitrogen Loss




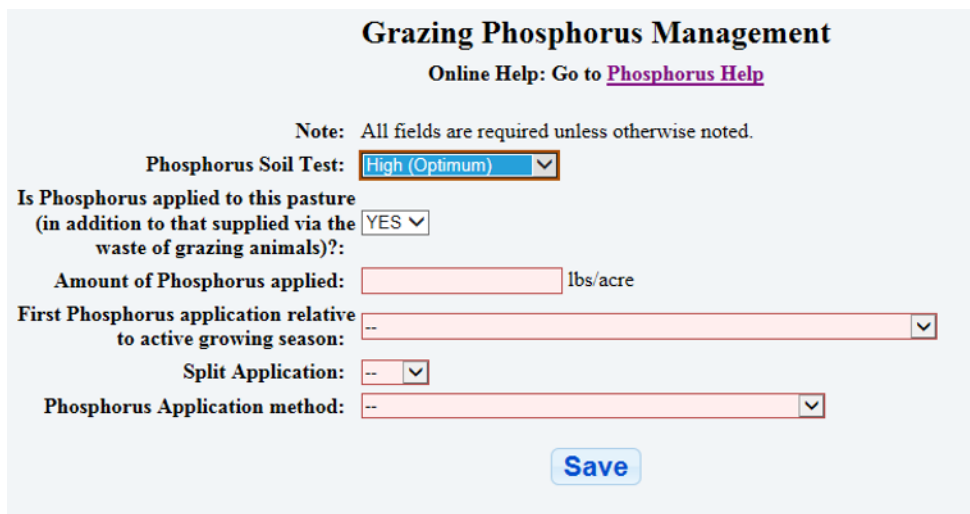


## Phosphorus Overview

Like Nitrogen, the Phosphorus section in Resource Stewardship is only completed for Crop and Pasture evaluations.

## Grazing Phosphorus Walk-Through

1. Click on the **Phosphorus** tab or select Phosphorus in the **Roadmap** .
2. Answer the questions for Grazing Phosphorus Management and click **Save**.



**Grazing Phosphorus Management**

Online Help: Go to [Phosphorus Help](#)

Note: All fields are required unless otherwise noted.

Phosphorus Soil Test:

Is Phosphorus applied to this pasture (in addition to that supplied via the waste of grazing animals)?:

Amount of Phosphorus applied:  lbs/acre

First Phosphorus application relative to active growing season:

Split Application:

Phosphorus Application method:

**Save**

**Phosphorus Soil Test:** Excessive/Very High; High (Optimum); Low; Medium; No Test

**Is Phosphorus applied to this pasture (in addition to that supplied via the waste of grazing animals)?:** Yes/No (If No, skip remaining questions)

**Amount of Phosphorus applied:** Numeric value in lbs/acre. Must be an integer from 0 to 99999

**First Phosphorus application relative to active growing season:** >30 days after the active growing season ends; >30 days before active growing season; > 7 but <=30 days before active growing season; During the active growing season; End of active growing season to 30 days after the end of growing season.

**Split Application:** Yes/No

**Is first application <=25lbs N/acre:** Yes/No

**Phosphorus Application Method:** Fertigation; Immediate incorporation, banded, or



injected; Surface application with incorporation (within 48 hours);  
Surface broadcast, no incorporation

A Phosphorus Supplied/Removed Ratio will be established and Management Points will be returned for the following:

Nutrient Management – Surface Phosphorus Loss

Nutrient Management – Subsurface Phosphorus Loss



## IPM Overview

The interpretation of “Integrated Pest Management (IPM) Plan” for Pasture and Range evaluations in Resource Stewardship simply refers to any type of pest management plan, not necessarily an NRCS-developed IPM Plan like Crop Resource Stewardship Evaluations require. If the producer has a basic plan/approach for applying pesticides on the site, credit will be given for having an “IPM plan” for purposes of Resource Stewardship on grazing lands.

## IPM Walk-Through

1. Click the Integrated Pest Management (**IPM**) tab or select IPM in the **Roadmap** .



2. Answer Yes/No to **Are Pesticides applied to this PLU**. If No, skip the remaining IPM questions. If Yes, answer the following questions.



## Grazing Pesticide Management

Online Help: Go to [IPM Help](#)

Note: All fields are required unless otherwise noted.

Are Pesticides applied to this PLU:

1. Do you follow a current pest management plan that documents how expected weeds, insects, diseases and other pests will be monitored and how new pests will be evaluated?

2. Do you routinely apply pesticides (herbicides, insecticides, fungicides, etc.) on a set schedule without monitoring pest pressure?

3. Do you apply the same pesticides the same way each year based primarily on what has been effective in the past without trying to manage pest resistance?

4. Does your pest management plan identify which pest suppression techniques will be considered for each pest and how these techniques will be utilized to delay the onset of pest resistance?

5. Do you carefully target pest suppression to just the areas that need it based on scouting?

6. Do you utilize pest suppression techniques that will have less impact on off-site natural resources, including nearby drinking water sources and terrestrial/aquatic wildlife habitats?

7. Do you monitor and document environmental conditions at the site level to guide your scouting and pesticide application decisions?

8. To reduce the need for pest suppression, does your plan utilize pest prevention and avoidance techniques?

9. Do you utilize cultural, mechanical or biological suppression techniques (including prescribed grazing) to reduce the need for higher hazard pesticides?

10. Do you utilize intensive rotational grazing to maintain forage vigor that prevents and avoids pests so effectively that routine pest suppression is NOT necessary?

Save

1. Do you follow a current pest management plan that documents how expected weeds, insects, diseases, and other pests will be monitored and how new pests will be evaluated?: Yes/No

If No, skip the remaining IPM questions. If Yes, answer the following questions.

Note: The pest management plan should be less than 3 years old and include monitoring plans and pest suppression decision criteria (action thresholds) for all expected weeds, insects, and diseases, and other pests.

2. Do you routinely apply pesticides (herbicides, insecticides, fungicides, etc.) on a set schedule without monitoring pest pressure?: Yes/No



Note: This does not include a single pesticide application ahead of time to help manage a universal pest, like treating seeds with a fungicide to help prevent soil-borne diseases.

- 3. Do you apply the same pesticides the same way each year based primarily on what has been effective in the past without trying to manage pest resistance?: Yes/No**

Note: This includes using the same or similar pesticide chemistry year after year without rotating active ingredient mode of action.

- 4. Does your pest management plan identify which pest suppression techniques will be considered for each pest and how these techniques will be utilized to delay the onset of pest resistance?: Yes/No**

Note: This includes a list of all probable pest suppression techniques (synthetic pesticides, organic pesticides, biological/mechanical/cultural controls, etc.) that will be considered for each pest and how different suppression techniques will be rotated to manage pest resistance.

- 5. Do you carefully target pest suppression to just the areas that needs it based on scouting?: Yes/No**

Note: Based on scouting, economic injury thresholds, and other IPM principles that are specific to a particular grazing system and its pests. Prescribed pest suppression techniques are only utilized when and where they are absolutely necessary.

- 6. Do you utilize pest suppression techniques that will have less impact on off-site natural resources, including nearby drinking water sources and terrestrial/aquatic wildlife habitats: Yes/No**

Note: This includes pest management systems that preferentially utilize things such as pesticides with lower WINPST soil/pesticide hazard ratings, pesticides with less impact on pollinator, and reduced tillage for weed control to limit the potential for sediment loss.

- 7. Do you monitor and document environmental conditions at the site level to guide your scouting and pesticide application decisions?: Yes/No**

Note: This includes monitoring temperature, rainfall, relative humidity, and wind speed at the site level as well as monitoring the weather forecast so pesticide applications can be timed to minimize the potential for offsite losses via wind and water.



**8. To reduce the need for pest suppression, does your plan utilize pest prevention and avoidance techniques?: Yes/No**

Note: Pest prevention and avoidance techniques include managing forage to prevent weed establishment, using pest-free seeds, using pest resistance varieties, cleaning tillage and harvesting equipment between sites, and eliminating alternate hosts for insect pests or disease organisms.

**9. Do you utilize cultural, mechanical, or biological suppression techniques (including prescribed grazing) to reduce the need for higher-hazard pesticides?: Yes/No**

Note: This includes pest management systems that preferentially substitute cultural, mechanical, or biological suppression techniques (including prescribed grazing) in place of synthetic or organic pesticides to reduce pesticide use. When pesticides are needed, those with lower WINPST soil/pesticide hazard ratings are preferred.

**10. Do you utilize intensive rotational grazing to maintain forage vigor that prevents and avoids pests so effectively that routine pest suppression is NOT necessary?: Yes/No**

Note: This is a high level management system that is difficult to achieve. It relies on very careful management to prevent and avoid pests so effectively that routine pest suppression (including synthetic or organic pesticide use and soil disturbing tillage) is not necessary.

**3. Click **Save**.**

Management Points are displayed for the following:

- IPM Pesticide Management (Adsorbed Runoff)
- IPM Pesticide Management (Drift)
- IPM Pesticide management (Leaching)
- IPM Pesticide Management (Solution Runoff)




## WINPST Online Overview

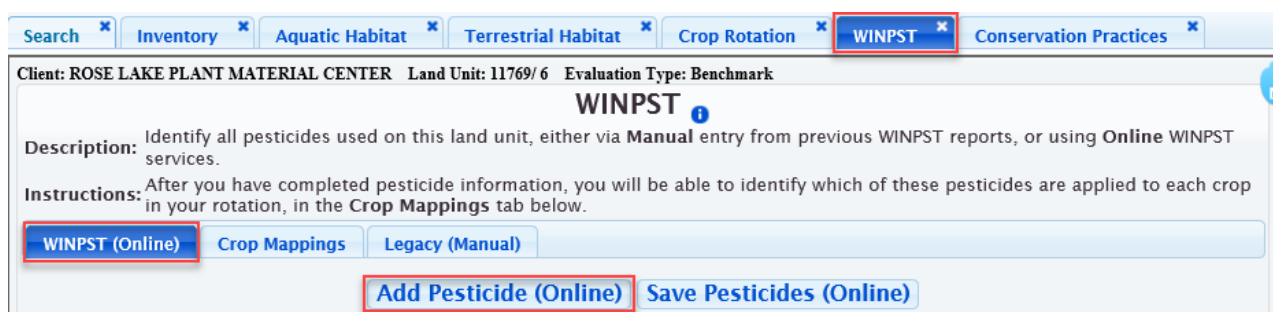
WINPST is an environmental risk screening tool for pesticides. It can be used to evaluate potential pesticides that move with water or eroded soil/organic matter and affect non-targeted organisms.

WINPST data that was captured in Resource Stewardship prior to September 2017 can be found in the Legacy (Manual) tab. The Legacy (Manual) tab also allows the manual entry of WINPST data captured outside of Resource Stewardship.

For Crop Evaluations, all probable pesticides should be selected in WINPST for each crop in the rotation. The same pesticide may be used differently on the same crop at different times, so a given pesticide may need to be selected in WINPST more than once with different application parameters, even when WINPST reports are developed for each crop.

## WINPST Online Walk-Through

1. Select the **WINPST** tab or select WINPST on the **Roadmap** .
2. Select **WINPST (Online)**
3. Click **Add Pesticide (Online)** for each pesticide you want to search for and add.



4. Search for the pesticides in the EPA database and click on it to select it.

Enter all or part of a pesticide product name. Users can also enter a company or product code (or both). A complete EPA registration number for the company and/or product code must be entered (entering 52 will not match products with the code 523-445).





**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -   
company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

The below example shows the search results of a partial match of a pesticide product name.

**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -   
company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (5 results returned)

EPA Reg. No.	Pesticide ProductName
264-516	ALLETTE WDG FUNGICIDE
432-890	ALLETTE WDG BRAND FUNGICIDE
432-894	CHIPCO ALLETTE WSP BRAND FUNGICIDE
432-897	ALLETTE HG BRAND FUNGICIDE
432-897	MONTEREY ALLETTE

Page 1 of 1 **Found: 5**

The below example shows the search results for the exact match of a pesticide product name (in general, fewer results will be returned when **Exact Match** is selected for the search).



**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -

☒ **Exact Match**  
 Incomplete text may be specified for the product name; all pesticides containing the string will be matched.

**Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (1 results returned)

EPA Reg. No.	Pesticide ProductName
264-S16	ALIETTE WDG FUNGICIDE

Page 1 of 1 Found: 1

The below example shows the results of a complete match (company 3-digit number and product 3-digit number) of an EPA registration number. Note that multiple products can be returned for the same registration number.

**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -

☒ **Exact Match**  
 Incomplete text may be specified for the product name; all pesticides containing the string will be matched.

**Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (2 results returned)

EPA Reg. No.	Pesticide ProductName
432-890	ALIETTE WDG BRAND FUNGICIDE
432-890	LESCO PRODIGY SIGNATURE

Page 1 of 1 Found: 2

The below example shows the results for a company match by EPA registration number (in general, more results will be returned if a 3-digit product number is not also included in the search).



**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  432 -  company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (Too many search results found. Only the first 188 results are shown. If you can't find the desired pesticide in the displayed list, consider narrowing your search criteria.)

EPA Reg. No.	Pesticide ProductName
432-757	TRIBUTE II XL TERMITICIDE/INSECTICIDE CONCENTRATE
432-763	K-OTHRINE SC INSECTICIDE
432-772	K-OTHRINE DUST INSECTICIDE
432-796	AQUA-PERMANONE
432-811	INTERCEPT LAWN & ORNAMENTAL INSECT CONTROL
432-823	DELTA 920 DUST INSECTICIDE
432-824	DELTA GRANULAR
432-832	DELTA WETTTABLE POWDER
432-834	DELTA GARD T&O 5 SC INSECTICIDE
432-834	DELTA GARD T&O 5SC INSECTICIDE

Page 1 of 19 Found: 188

5. Select the **App Area**, **App Method**, and **App Rate** details for each pesticide.

1. ALIETTE WD 2. BEST GREEN

**BEST GREENING SYSTEMS WEED AND FEED 228-412**

\*Application Rate may vary by ingredient; Area and Method are same across ingredients

Active Ingredient	PC Code	PC Percent	App Area	App Method	App Rate
Mecoprop-P	129046	0.319	Broadcast	Surface Applied	Standard
2,4-D, 2-ethylhexyl ester	030063	1.196	Broadcast	Surface Applied	Standard
Dicamba	029801	0.080	Broadcast	Surface Applied	Standard
2,4-Dichlorophenoxyacetic acid	030001	0.162	Broadcast	Surface Applied	Standard

\*After setting Application details, select Get Hazard Ratings

**Get Hazard Ratings**

6. Click **Get Hazard Ratings** and click **Save Pesticides (Online)** for each Pesticide tab added. (Repeat Steps 1 -6 for each additional pesticide.)

**Add Pesticide (Online)** **Save Pesticides (Online)**

1. ALIETTE WD 2. BEST GREEN

**BEST GREENING SYSTEMS WEED AND FEED 228-412**

\*Application Rate may vary by ingredient; Area and Method are same across ingredients

Active Ingredient	PC Code	PC Percent	App Area	App Method	App Rate
Mecoprop-P	129046	0.319	Broadcast	Surface Applied	Standard
2,4-D, 2-ethylhexyl ester	030063	1.196	Broadcast	Surface Applied	Standard
Dicamba	029801	0.080	Broadcast	Surface Applied	Standard
2,4-Dichlorophenoxyacetic acid	030001	0.162	Broadcast	Surface Applied	Standard

\*After setting Application details, select Get Hazard Ratings

**Get Hazard Ratings**



Note: The application rate can vary between active ingredients. While active ingredient hazard ratings are shown, only the pesticide product level ratings are used in Resource Stewardship.

Management Points are returned for the following:

WINPST – Pesticide Management (Leaching)

WINPST – Pesticide Management (Solution Runoff)

WINPST – Pesticide Management (Adsorbed Runoff)

## WINPST Manual Entry Overview

To enter WINPST data manually, look through all the ratings in the Soil/Pesticide Interaction Hazard Rating Report to identify the worst-case (highest risk) result in each category (Leaching – Human, Leaching - Fish, Solution Runoff – Human, Solution Runoff – Fish, and Adsorbed Runoff – Fish) for all planned pesticides for a crop on all planned land unit (PLU) soils. Circle each of those worst-case ratings on the WINPST report for documentation and then select those five worst case ratings in Resource Stewardship in the WINPST data entry screen. Note that the highest hazard ratings for each of the five categories may be different for different soils and/or different pesticides.

Note: Selecting pesticides in WINPST by product name can sometimes select multiple active ingredients. Each active ingredient has its own unique hazard rating, so a product should be represented by the worst case (highest risk) rating for each category for all the product's active ingredients.

### *Ratings reported in WINPST:*

Very Low (V)

Low (L)

Intermediate (I)

High (H)

eXtra High (X)



## Soil / Pesticide Interaction Loss Potential and Hazard Rating Report

### LEGEND

X -- eXtra high  
H -- High  
I -- Intermediate  
L -- Low  
V -- Very low

#### Conditions that affect ratings:

(none) -- Broadcast application (default); applied to more than 1/2 the field  
b -- Banded application; applied to 1/2 the field or less  
p -- Spot application; applied to 1/10th of the field or less

(none) -- Surface applied (default); applied to the soil surface  
i -- Soil incorporated; with light tillage or irrigation  
f -- Foliar application; directed spray at nearly full crop/weed canopy

(none) -- Standard application rate (default); greater than 1/4 lb/acre  
l -- Low rate of application; 1/10 to 1/4 lb/acre  
<ul> -- Ultra Low rate of application; 1/10 lb/acre or less

m -- There are surface connected macropores (cracks) that go at least 24 inches deep.  
w -- The high water table comes within 24" of the surface during the growing season.  
s -- The field slope is greater than 15%.

<none> -- Default condition for all climates that have rainfall/irrigation after pesticide application

<dry> -- Exception for arid climates that have a low probability of rainfall and no irrigation after pesticide application

#### SPISP II I-Ratings:


Leaching -- Soil / Pesticide Interaction Leaching Potential  
Solution -- Soil / Pesticide Interaction Solution Runoff Potential  
Adsorbed -- Soil / Pesticide Interaction Adsorbed Runoff Potential



# WINPST Manual Entry Walk-Through (Pasture and Range Example)

This example uses Roundup and Weedmaster.

Pesticide Name	Roundup	Weedmaster
Leaching – Human	Very Low (V)	Very Low (V)
Leaching – Fish	Very Low (V)	Very Low (V)
Solution Runoff – Human	Low (L)	Very Low (V)
Solution Runoff – Human	Low (L)	Low (L)
Adsorbed Runoff – Fish	Low (L)	Very Low (V)

1. Click on the **WINPST** tab or select WINPST on the **Roadmap**  .
2. On the **Legacy (Manual)** tab, type the Pesticide Name (this example uses Roundup) and enter the pesticide hazard ratings gathered from the Soil/Pesticide Interaction Hazard Rating Report. Click **Save Pesticides (Manual)** when finished.

WINPST (Online) **Legacy (Manual)**

**Save Pesticides (Manual)**

1. Roundup +

**WINPST**  
Online Help: Go to [WINPST Help](#)

Note: All fields are required unless otherwise noted.

Pesticide Name: Roundup

Leaching - Human: V

Leaching - Fish: V

Solution - Human: L

Solution - Fish: L

Adsorbed - Fish: L

On the tab showing the first pesticide you entered, click the **Add tab** or **Copy** feature to add additional pesticides. The Copy feature allows users to copy over pesticide information and make any necessary edits to the pesticide name or hazard ratings.

1. Roundup +

- On Tab 2, enter the Pesticide Name and Hazard Ratings information for **Weedmaster**. Click **Save Pesticides** when finished.

**Save Pesticides (Manual)**

1. Roundup + 2. Weedmaster +

**WINPST**  
Online Help: Go to [WINPST Help](#)

Note: All fields are required unless otherwise noted.

Pesticide Name: Weedmaster

Leaching - Human: V

Leaching - Fish: V

Solution - Human: V

Solution - Fish: L

Adsorbed - Fish: V

Management Points are returned for the following:

- WINPST – Pesticide Management (Leaching)
- WINPST – Pesticide Management (Solution Runoff)
- WINPST – Pesticide Management (Adsorbed Runoff)






# Conservation Practices Overview

Information for the Conservation Practices and Management Techniques (CPMT) section is gathered from the client. CMPTs can be chosen from the open-ended list in Resource Stewardship based on what has been implemented on the Planned Land Unit (PLU). For Crop evaluations, these CPMTs are identified at the crop rotation level.

**Conservation Practices** represent the initial NRCS Conservation Practices as identified in the Field Office Technical Guide (FOTG).

**Management Techniques** represent conservation activities which may be sub-components of Conservation Practices that help to define the management activity and associated benefits.

## Conservation Practices Walk-Through


- 1. Click the **Conservation Practices** tab or on the Roadmap .
- 2. Answer Yes to **Does the PLU have any resident conservation practices which will impact its conservation stewardship** (if applicable).

### Conservation Practices


Online Help: Go to [Conservation Practices Help](#)


Note: All fields are required unless otherwise noted.

Does the PLU have any resident conservation practices which will impact its conservation stewardship:





Row	Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1 	<input type="text"/>

- 3. Enter the conservation practice name or practice number. This example uses **Fence (382)** as the first conservation practice applied. **382** can also be entered for the conservation practice number.

Row	Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1 	<input type="text" value="Fence (382)"/>

- 4. To enter another practice, click the **Add Row**  button.

To add, delete or to reorder the rows use the appropriate button. The order of conservation practices has no effect on the results.

-  Add Row
-  Delete Row
-  Move Row Up
-  Move Row Down

5. Repeat steps 3 and 4 for each conservation practice you wish to enter. This example uses **Stream Crossing (578)** and **Watering Facility (614)**.
6. After all practices have been entered, click the **I Have Finished Entering Conservation Practices** radio button and **Save**.

Row		Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1	  	Fence (382)
2	   	Stream Crossing (578)
3	  	Watering Facility (614)

☒ **I Have Finished Entering Conservation Practices Data**

[Save Practices](#)

Management Points are returned for the following:

- CPMT – Land Health
- CPMT – Sediment in Surface Water
- CPMT – Sediment in Surface Water
- CPMT – Surface Phosphorus Loss
- CPMT – Subsurface Phosphorus Loss
- CPMT – Surface Nitrogen Loss
- CPMT – Subsurface Nitrogen Loss
- CPMT – Pesticide Management (Leaching)
- CPMT – Pesticide Management (Solution Runoff)
- CPMT – Pesticide Management (Adsorbed Runoff)
- CPMT – Pesticide Management (Drift)



## Irrigation Overview


The Irrigation Management tab calculates irrigation stewardship by allowing the user to answer a portion of the Farm Irrigation Rating Index (FIRI) questions on the data entry page and then uses a web service to get an immediate Irrigation System Efficiency rating. FIRI is an NRCS resource used by planners to evaluate irrigation systems and management. The Resource Stewardship platform uses a modified version of FIRI which focuses on management decisions. This modified version is intended to allow greater efficiency in the data entry and farm evaluation processes.


FIRI in Resource Stewardship performs a quick analysis to determine whether irrigation operations meet irrigation threshold criteria. It is also used to compare an existing system to a proposed system to estimate water conserved. The Resource Stewardship platform uses FIRI for crop and pasture land uses. It is not applicable for land uses that do not use irrigation.

Resource Stewardship also allows manual entry of direct results from FIRI at the user's discretion. Users may enter FIRI results in the Stand Alone Irrigation section of the tool.

## Irrigation Walk-Through

1. On the **Inventory** tab, enter the maximum irrigation per year and click **Save**. Irrigation data entry is only supported when an inventory survey has a maximum irrigation per year >0.

What is the maximum irrigation per  
year  :  in.

2. Click on the **Irrigation Management** tab or select Irrigation Management on the **Roadmap**  .
3. If irrigation data is not available, select **No** and skip the remaining questions. If irrigation data is available, select **Yes**. Additional questions will generate based on the irrigation type selected.



## Irrigation Management

Online Help: Go to [Irrigation Help](#)

**Note:** All fields are required unless otherwise noted.

<b>Irrigation Data Available:</b>	<input type="text" value="YES"/>
<b>Irrigation Type:</b>	<input type="text" value="--"/>
<b>Water Measurement:</b>	<input type="text" value="--"/>
<b>Irrigation Scheduling/Soil Moisture:</b>	<input type="text" value="--"/>
<b>Irrigation Skill and Action:</b>	<input type="text" value="--"/>
<b>Water Delivery Factor:</b>	<input type="text" value="--"/>
<b>Maintenance Factor:</b>	<input type="text" value="--"/>

[Save](#)

**Irrigation Data Available:** Yes/No. If Yes, answer the following question.

**Irrigation Type:** Select answer from drop-down. Irrigation type answer choice will influence the following questions to answer for this section. Not every question will be asked for each irrigation type. Please see the irrigation question guide in the appendix for more information.

**Land Leveling:** Select answer from drop-down

**Water Distribution Control:** Select answer from drop-down

**Conveyance:** Select answer from drop-down

**Tailwater Recovery:** Select answer from drop-down

**Water Measurement:** Select answer from drop-down

**Irrigation Skill and Action:** Select answer from drop-down

**Irrigation Scheduling/Soil Moisture:** Select answer from drop-down

**Water Delivery Factor:** Select answer from drop-down



**Maintenance Factor:** Select answer from drop-down

**Emitter Clogging:** Select answer from drop-down

**Trickle Design:** Select answer from drop-down

**Climatic:** Select answer from drop-down

**Wind:** Select answer from drop-down

**Sprinkler Design:** Select answer from drop-down

See the [Irrigation Management](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/?cid=nrcseprd1334052) help page (<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/?cid=nrcseprd1334052>) for an appendix listing all of the Irrigation Management answer choices.

#### 4. Click **Save**

Management Points are returned for the following:

Irrigation Management




## Aquatic Habitat Overview

This section evaluates aquatic habitat by completing the appropriate aquatic Wildlife Habitat Evaluation Guide (WHEGs). WHEGs are models that depict important relationships between fish and wildlife and their habitats and provide an index of habitat suitability. They 1) simplify the real world, 2) improve understanding, and 3) predict outcomes.

Different WHEGs are available for selection in Resource Stewardship depending on the type of aquatic habitat you are evaluating.

## Aquatic Habitat Walk-Through

1. Click on the **Aquatic Habitat** tab or select Aquatic Habitat on the **Roadmap** .
2. Select the appropriate answer (PLU is part of larger Management Unit or PLU Only) for **Categorize the land applicable to this Habitat information**.

### Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

PLU is part of larger Management Unit

PLU Only

3. Select an aquatic habitat guide from the selection. If no guide is applicable, then select **Not Applicable**. Note that selecting Not Applicable means there is no such habitat on the PLU (i.e. no water on cropland). This will result in no score for aquatic habitat. Selecting **Not Evaluated** means that habitat concerns may exist, but questions were either unanswered or responses unknown. This will result in a failing score for aquatic habit.



## Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this

Habitat information:

PLU Only

Pick an Aquatic Habitat Guide:

Not Evaluated  
Not Applicable  
Approved Alternative Guide  
Bog Turtle Guide  
National Lakes and Ponds Guide  
National River Guide  
National Stream Guide  
National Wetland Guide  
Rio Grande Cutthroat Trout

Required

Currently, you can select the following for **Pick an Aquatic Habitat Guide**:

Not Evaluated  
Not Applicable  
Approved Alternative Guide  
Bog Turtle Guide  
National Lakes and Ponds Guide  
National River Guide  
National Stream Guide  
National Wetland Guide  
Rio Grande Cutthroat Trout

4. Select the appropriate answer choices from the drop down for each question for the habitat guide selected and click the **Save** button.





## Aquatic Habitat







Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

### National Stream Guide

1. Hydrologic Alteration :
2. Riparian Zone Quantity :
3. Riparian Zone Quality :
4. Bank Condition :
5. Stream Habitat Complexity :
6. Barriers to Aquatic Habitat Guides Species Movement :

[Save](#)

Note that if an **Approved Alternative Guide** is selected, utilize the guide outside Resource Stewardship and manually enter the information for **Name of Habitat Guide**, **Guide Threshold**, and **Guide Results**.

## Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

### Approved Alternative Guide

Name of Habitat Guide:

Guide Threshold:

Guide Result:

[Save](#)

The Guide Threshold is 0.5 in most cases. The Guide Result (the client's score calculated based on the WHEG instructions) is typically a result between 0-1.

Management Points are returned for the following: Aquatic Habitats




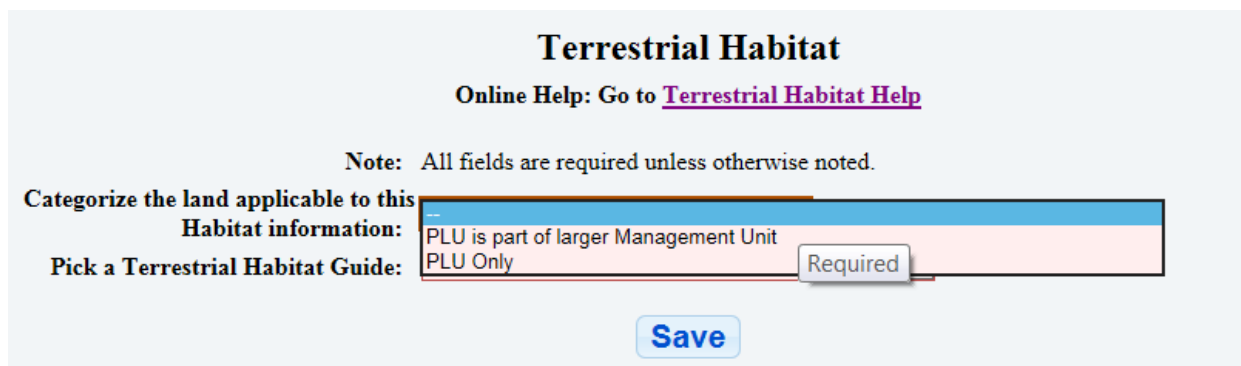
## Terrestrial Habitat Overview

This section of the tool evaluates terrestrial habitat using the appropriate Wildlife Habitat Evaluation Guides (WHEGs). WHEGs are models that depict important relationships between fish and wildlife and their habitats and provide an index of habitat suitability. They 1) simplify the real world, 2) improve understanding, and 3) predict outcomes.

Different guides are available for selection depending on land use being evaluated. In addition, a limited number of Working Lands for Wildlife (WLFW) guides are also available.

## Terrestrial Habitat Walk-Through

1. Click on the **Terrestrial Habitat** tab or select Terrestrial Habitat on the **Roadmap** .
2. Select the appropriate answer (PLU is part of larger Management Unit or PLU Only) for **Categorize the land applicable to this Habitat information**.



The screenshot shows a web form titled "Terrestrial Habitat". Below the title is a link for "Online Help: Go to [Terrestrial Habitat Help](#)". A note states: "Note: All fields are required unless otherwise noted." The form has two main sections. The first section is "Categorize the land applicable to this Habitat information:" with a dropdown menu. The second section is "Pick a Terrestrial Habitat Guide:" with a dropdown menu. The dropdown menu is open, showing two options: "PLU is part of larger Management Unit" and "PLU Only". The "PLU Only" option is highlighted in pink and has a "Required" label next to it. Below the dropdowns is a blue "Save" button.

3. Select a terrestrial habitat guide from the choices available. If no guide is applicable, then select **Not Applicable**. Note that selecting Not Applicable means there is no such habitat on the PLU (i.e. no wildlife on farmstead). This will result in no score for terrestrial habitat. Farmstead and Associated Ag Evaluations have the option to select **Evaluated as part of adjacent land use**. This option will not penalize or improve the score. Selecting **Not Evaluated** means that habitat concerns may exist, but questions were either unanswered or responses unknown. This will result in a failing score for terrestrial habitat.

Available for all Evaluations:

- Not Applicable
- Not Evaluated
- Approved Alternative Guide
- Goldenwinged Warbler AppalachianMtn Guide



Greater Sage Grouse (ND and SD)  
Greater Sage Grouse (WA)  
Greater Sage Grouse (Idaho)  
Lesser Prairie Chicken – Sand Sagebrush  
Lesser Prairie Chicken – Sand Shinnery Oak  
Monarch Butterfly Midwest Guide  
Monarch Butterfly Southern Great Plains Guide  
New England Cottontail  
Southwestern Willow Flycatcher < 6000ft elev Guide  
Southwestern Willow Flycatcher > 6000ft elev Guide

Available for Crop Evaluations:

National Cropland (Flooded) Guide  
National Cropland (Unflooded) Guide  
National Cropland with Hay (Unflooded) Guide  
National Hayland Guide

Available for Range Evaluations:

National Range Guide

Available for Pasture Evaluations:

National Pasture Guide

Available for Forest Evaluations

Forest Guide

Available for Farmstead and Associated Ag Evaluations

Evaluated as part of Adjacent Land Use

4. Select the appropriate answer choices from the drop down for each question for the terrestrial habitat guide selected and click the **Save** button.



## Example

### Terrestrial Habitat

Online Help: Go to [Terrestrial Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick a Terrestrial Habitat Guide:

#### Monarch Butterfly Midwest Guide

1) Plant Community:

2) Insecticide Risk condition:

3) Weed Management Risk Condition:

4) Average milkweed stem density per acre:

5) Average monarch nectaring forb cover within the AA:

6) Average number of monarch nectaring forb-species within the AA:

[Save](#)

Note that if an **Approved Alternative Guide** is selected, utilize the guide outside Resource Stewardship and manually enter the information for **Name of Habitat Guide**, **Guide Threshold**, and **Guide Results**.

### Terrestrial Habitat

Online Help: Go to [Terrestrial Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick a Terrestrial Habitat Guide:

#### Approved Alternative Guide

Name of Habitat Guide:

Guide Threshold:

Guide Result:

[Save](#)

The Guide Threshold is 0.5 in most cases. The Guide Result (the client's score calculated based on the WHEG instructions) is typically a result between 0-1.

Management Points are returned for the following: Terrestrial Habitats



## Additional WHEG Information

Common terms included in WHEGs are described below.

**Non-Cropland Habitat Elements (NCHE):** This includes habitat elements associated with crop fields occurring within the field, such as field borders, odd areas, windbreaks, wetlands, brushy draws, include field borders, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, riparian areas, vegetated ditches, native vegetated communities, rare and declining habitats, and center pivot corners hedgerows, seeps, riparian areas, vegetated ditches, native vegetated communities, rare and declining habitats, and center pivot corners. It also includes habitat elements immediately adjacent to the crop fields, such as CRP (Conservation Reserve Program), woodlands, and riparian areas. The evaluated NCHE must be under the control of the applicant and be  $\geq 30$  feet wide and  $\geq 0.1$  acre. NCHE must meet state quality standards for wildlife habitat as defined by the NRCS State Biologist with guidance from the State Wildlife Agency.

**Pasture and Non-Pasture Habitat Elements (NPHE):** This includes non-pastureland cover, such as field borders, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, riparian areas, and center pivot corners that occur within the field, or NPHE that occurs immediately adjacent to the pasture, such as CRP, woodlands, and riparian areas. The evaluated NPHE must be under the control of the applicant and be  $\geq 30$  feet wide and  $\geq 0.1$  acre. NPHE includes paddocks not grazed during the nesting season. NPHE must meet state quality standards for wildlife habitat as defined by the NRCS State Biologist with guidance from the State Wildlife Agency.

**Range:** This refers to rangeland habitats on which the climax or potential plant cover is composed principally of native grasses, grass-like plants, forbs, or shrubs suitable for grazing and browsing, and introduced forage species that are managed like rangeland.



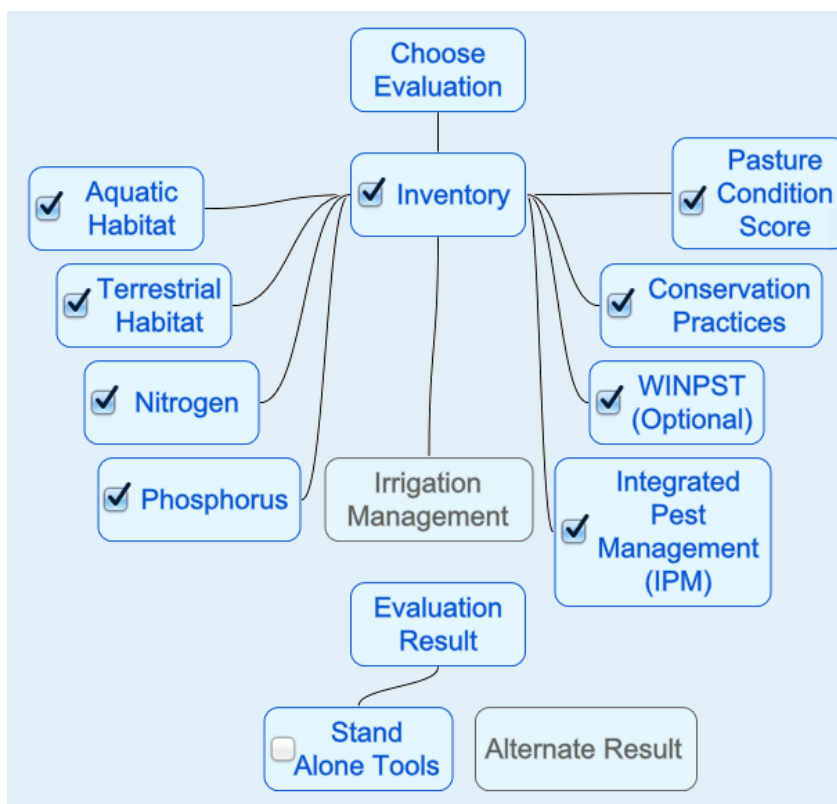
## Pasture Evaluation Results Overview

Evaluation results identify the condition at the site. Resource Stewardship can also evaluate alternative management scenarios or planned conservation activities to improve resource stewardship. Within RS, most major resource concerns are made up of sub-concerns. The user has the option to evaluate each of those sub-concerns individually and determine their management level compared to the stewardship threshold.

## Pasture Evaluation Results Walk-Through

1. Click on the **Roadmap**  and select **Evaluation Result**.

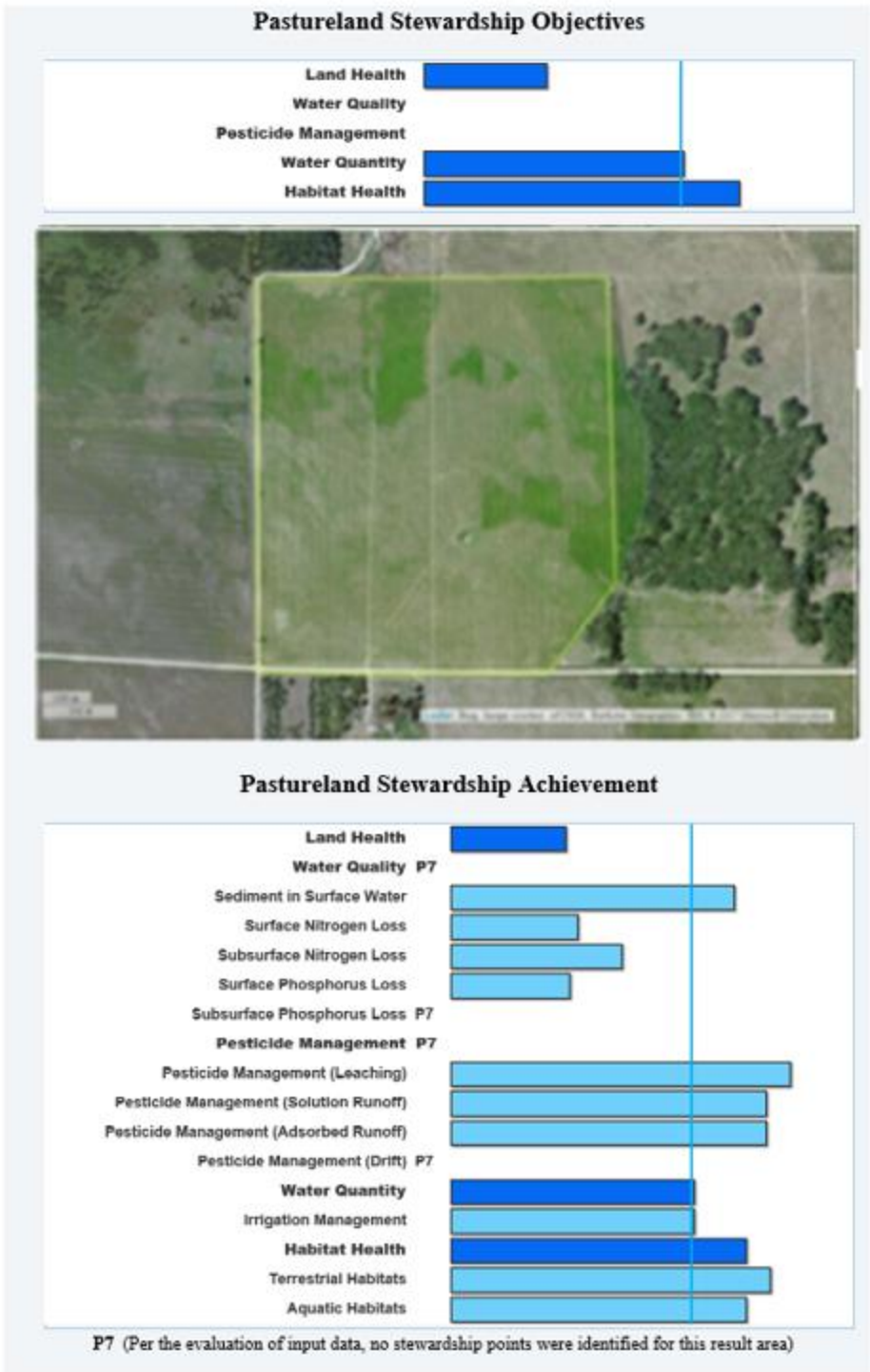
Note: If **Evaluation Result** is not active, go through all the tabs to ensure that all information is entered and saved.



Note: See the [Stand Alone Tools help webpage](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/?cid=nrcseprd1335250) (<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/?cid=nrcseprd1335250>) for help on how to complete the **Stand Alone Tools** section (if needed).



Below is an example Evaluation Report.



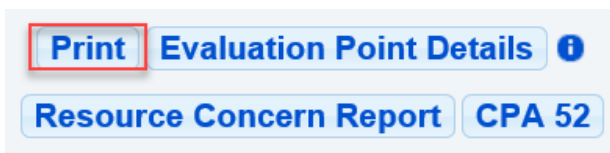
### Conservation Practices and Management Techniques

- Prescribed Grazing (528)

### Evaluation Details

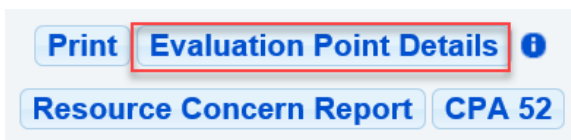
- Terrestrial Habitat Guide(s): National Pasture Guide
- Aquatic Habitat Guide(s): National Stream Guide
- WINPST entered: Yes

The Evaluation Report can be printed by clicking the **Print** button at the bottom of the page.



### Evaluation Point Details

1. To view the evaluation point details, click **Evaluation Point Details** at the bottom of the Evaluation Result report. This page provides the numerical scores and thresholds for the Management Points in the evaluation.



### Resource Concern Report

Resource Stewardship evaluation results (Standard or Alternate) provide a report that maps the RS result areas to the NRCS Resource Concerns. (Note: RS does not currently provide mappings to all possible Resource Concerns.)

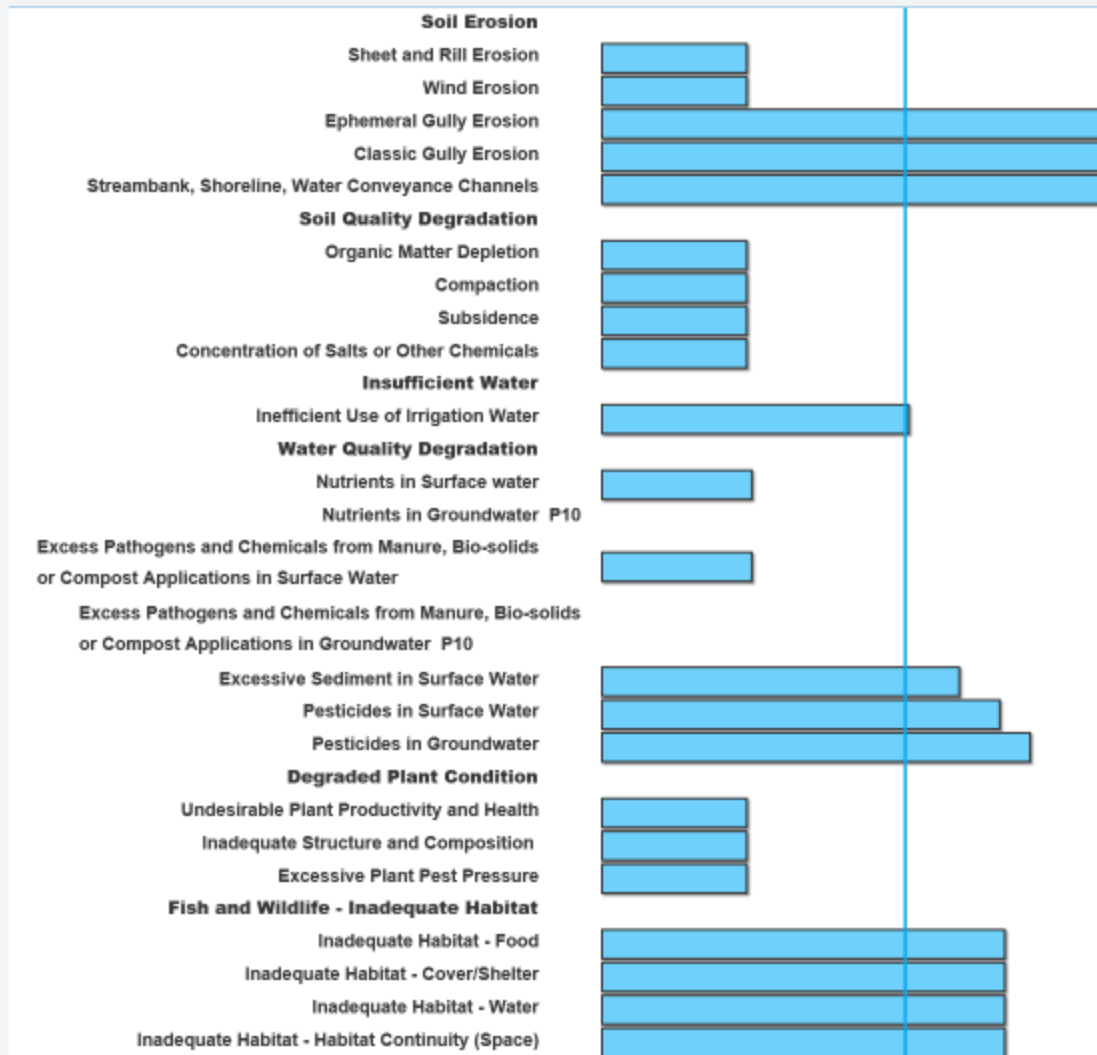
1. Click **Resource Concern Report** at the bottom of the Evaluation Results page.





The Resource Concerns represented vary by land use evaluation type. Resource Concerns are mapped by point detail to the RS final Evaluation Results.

### Pastureland Resource Concern Achievement



P10 No points were identified for this resource concern. Refer to the standard results for further explanation

### Conservation Practices and Management Techniques

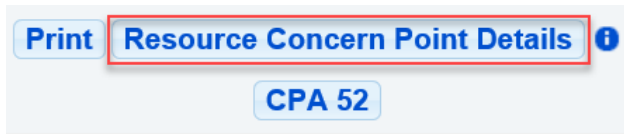
- Prescribed Grazing (528)



Unlike the final Evaluation Report, there are no summary bars rolling up the Resource Concern sets.

The bottom of the Resource Concern Report has a button to view the Resource Concern Point Details.

## 2. Click **Resource Concern Point Details**.



Multiple RS result areas may compete for the representation of a single Resource Concern and multiple Resource Concerns may be mapped from multiple Resource Stewardship result areas (example below).

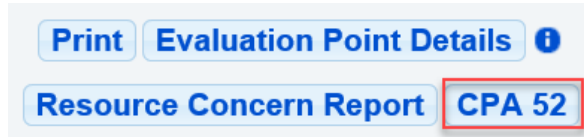
Resource Concern Point Details			
Resource Concern	Pasture Test Resource Concern Score	Resource Stewardship Key Indicator	Pasture Test Key Indicator Points
<b>Soil Erosion</b>	--	--	--
Sheet and Rill Erosion	29	Land Health	29
Wind Erosion	29	Land Health	29
<b>Soil Quality Degradation</b>	--	--	--
Organic Matter Depletion	29	Land Health	29
Compaction	29	Land Health	29
Subsidence	29	Land Health	29
Concentration of Salts or Other Chemicals	29	Land Health	29
<b>Insufficient Water</b>	--	--	--
Inefficient Use of Irrigation Water	61	Irrigation Management	61
<b>Water Quality Degradation</b>	--	--	--
Nutrients in Surface water	30	Surface Phosphorus Loss	30
Nutrients in Surface water	30	Surface Nitrogen Loss	32
Nutrients in Groundwater	0	Subsurface Nitrogen Loss	43
Nutrients in Groundwater	0	Subsurface Phosphorus Loss	0
Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Surface Water	30	Surface Phosphorus Loss	30
Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Surface Water	30	Surface Nitrogen Loss	32
Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Groundwater	0	Subsurface Nitrogen Loss	43
Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Groundwater	0	Subsurface Phosphorus Loss	0
Excessive Sediment in Surface Water	71	Sediment in Surface Water	71
Pesticides in Surface Water	79	Pesticide Management (Solution Runoff)	79
Pesticides in Surface Water	79	Pesticide Management (Adsorbed Runoff)	79
Pesticides in Groundwater	85	Pesticide Management (Leaching)	85
<b>Degraded Plant Condition</b>	--	--	--
Undesirable Plant Productivity and Health	29	Land Health	29
Inadequate Structure and Composition	29	Land Health	29
Excessive Plant Pest Pressure	29	Land Health	29
<b>Fish and Wildlife - Inadequate Habitat</b>	--	--	--
Inadequate Habitat - Food	80	Terrestrial Habitats	80
Inadequate Habitat - Food	80	Aquatic Habitats	74
Inadequate Habitat - Cover/Shelter	80	Terrestrial Habitats	80
Inadequate Habitat - Cover/Shelter	80	Aquatic Habitats	74
Inadequate Habitat - Water	80	Terrestrial Habitats	80
Inadequate Habitat - Water	80	Aquatic Habitats	74
Inadequate Habitat - Habitat Continuity (Space)	80	Terrestrial Habitats	80
Inadequate Habitat - Habitat Continuity (Space)	80	Aquatic Habitats	74



## CPA-52

The CPA-52 is the environmental evaluation document utilized by NRCS to ensure compliance with the National Environmental Policy Act (NEPA). The user is responsible for choosing the RS land unit evaluations which properly associate to applications/agreements, and the subsequent upload of the CPA-52 into DMS. Not all Resource Concerns are mapped and included in the RS-generated CPA-52. Therefore, the user is expected to complete the document started by RS.

1. Click **CPA 52** at the bottom of the Evaluation Results page.



Resource Stewardship will generate a starter CPA-52 based on a template spreadsheet. Answers for each resource concern are based on whether the result area in RS achieved the threshold.

### Benchmark Evaluation

Example of a result area from a Benchmark Evaluation that did not achieve the threshold, and the corresponding answer to be populated on the CPA-52.

Wind Erosion						
F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives					
	No Action		Alternative 1		Alternative 2	
	Amount, Status, Description  (Document both short and long term impacts)	if does NOT meet PC	Amount, Status, Description  (Document both short and long term impacts)	if does NOT meet PC	Amount, Status, Description  (Document both short and long term impacts)	if does NOT meet PC
SOIL: EROSION						
Wind Erosion		<input type="checkbox"/>		<input type="checkbox"/>		
No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details		NOT meet PC		NOT meet PC		

### Benchmark Evaluation Compared to a Planned/Alternative Scenario Evaluation

Example of a result area in RS from a Benchmark Evaluation that did not achieve the threshold, compared to



a Planned/Alternative Scenario Evaluation where chosen actions improved the result area to exceed the threshold.

Wind Erosion					
F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives				
	No Action		Alternative 1		Alternative 2
	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>
SOIL: EROSION					
Wind Erosion		<input type="checkbox"/>	Chosen Action(s), compared to the benchmark, improve this resource concern to the planning criteria as evaluated by RSET, see RSE report for details	<input type="checkbox"/>	
No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details		NOT meet PC		NOT meet PC	NOT meet PC

Planned Evaluation/Alternative Scenario Compared to Planned Evaluation

Example of a comparison between two Planned/Alternative Scenario Evaluations where one evaluation achieved the threshold and the other did not, and the corresponding answers to be populated on the CPA-52.


Wind Erosion					
F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives				
	No Action		Alternative 1		Alternative 2
	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>
SOIL: EROSION					
Wind Erosion		<input type="checkbox"/>	All Evaluated land units are at/above the planning criteria for this resource concern as evaluated by RSET, See RSE report for details	<input type="checkbox"/>	No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details
		NOT meet PC		NOT meet PC	NOT meet PC

Comparing Two Evaluations

Comparing evaluations on the same PLU is useful to see how changes to the management system can improve or hinder stewardship. By comparing evaluations and identifying areas for improvement, land managers can better improve their resource stewardship and conservation. The evaluation results section allows the user to directly compare two different evaluations on the same report.

To compare evaluations on the same PLU, you must have two complete evaluations on the same land unit. To do this you can copy an evaluation, and then edit the copied version to create an alternative scenario. (See [here](#) for assistance [creating a new evaluation](#) and [here](#) for assistance [copying an evaluation](#).) Any number of alternative evaluations or alternative scenarios may be attached to a PLU. Comparisons may be made against the benchmark evaluation or other alternative evaluations.

### Comparing Two Evaluations on the Same Evaluation PLU

1. Click **Evaluation Result** in the Roadmap  or select the **Evaluation Result** tab.
2. Evaluations available to compare to the current evaluation will be displayed in the Evaluations bar at the top of the Evaluation Results page. Select the evaluation you would like to compare by clicking on it.

Search

Inventory

Aquatic Habitat

Terrestrial Habitat

Nitrogen

Phosphorus

Irrigation Management

IPM

WINPST

Conservation Practices

Pasture Condition Score

Evaluation Result

Compare To Evaluation:

Evaluations							
Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Alternate	Scenario B	Pasture	--	NO	09/27/2018	

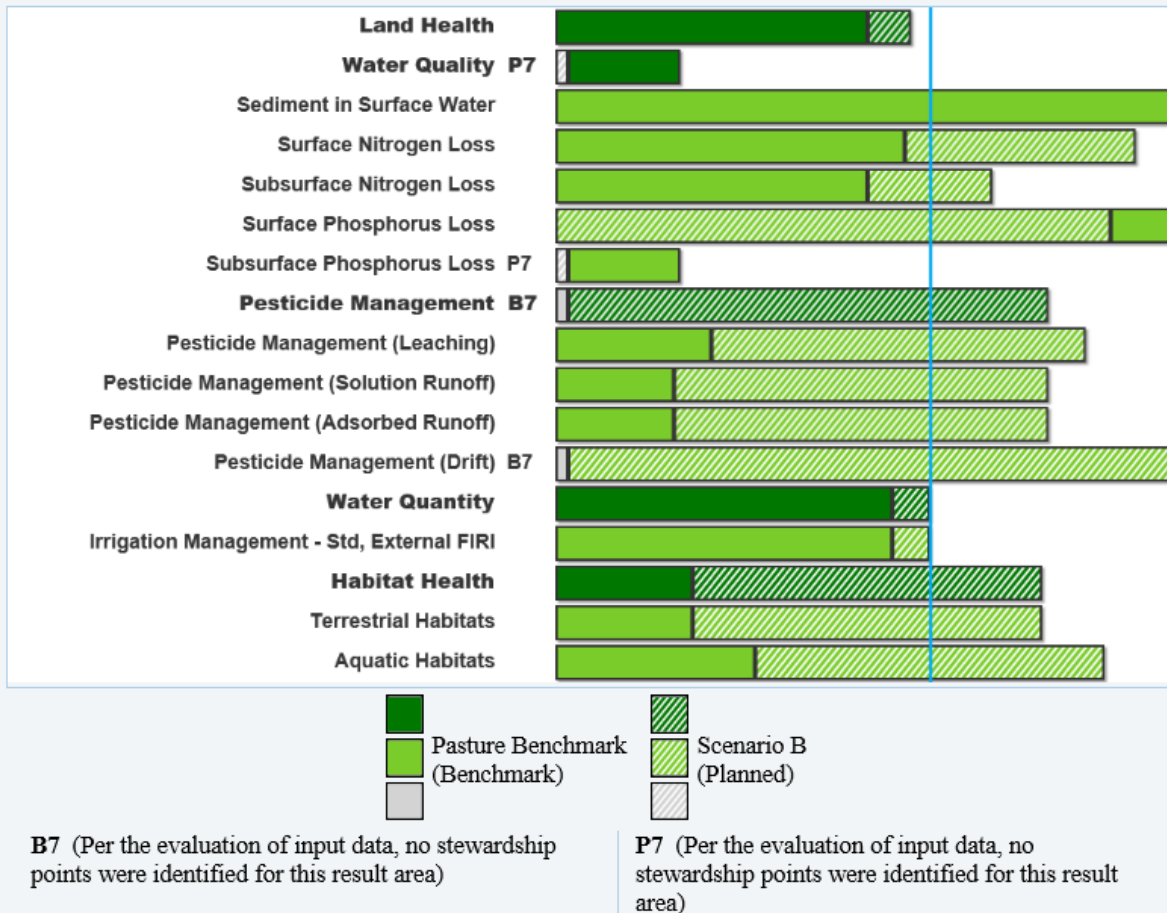
Page 1 of 1

Found: 1

The current evaluation will be compared to the selected alternative scenario evaluation. The alternative scenario evaluation will show up on the bar chart as shaded.



## Pastureland Stewardship Achievement



## Interpreting the Evaluation Results

As shown in the graphic above, the solid bars represent the current/benchmark state. Each of the key indicators are rolled up into five main categories (Soil Management, Water Quality, Pesticide Management, Water Quantity, Air Quality, and Habitat Health), represented by the darker solid bars. When the current/benchmark state is compared to an alternative/planned scenario, the alternative/planned scenario is represented by the shaded bars. The vertical blue line represents the threshold value for each of the different key indicators. To pass stewardship, each result area must meet or be to the right of the blue bar.



## Appendix A: Acronyms

CDSI	Conservation Delivery Streamlining Initiative
CEAP	Conservation Effects and Assessment Program
CLU	Common Land Unit
CPMT	Conservation Practices and Management Technique
CST	Customer Service Toolkit
ESD	Ecological Site Description
FIRI	Farm Irrigation Rating Index
FOTG	Field Office Technical Guide
FSA	Farm Service Agency
HUC	Hydrologic Unit Code
IET	Integrated Erosion Tool
LGU	Land Grant University
NM	Nutrient Management
NRCS	Natural Resources Conservation Service
RS	Resource Stewardship
RSE	Resource Stewardship Evaluation
RSET	Resource Stewardship Evaluation Tool
PLU	Planned Land Unit
PSMT	Pre-sidedress Nitrogen Test
RUSLE2	Revised Universal Soil Loss Equation
SSURGO	Soil Survey Geographic database
STEP	Stewardship Tool for Environmental Performance
T	Soil Loss Tolerance Level
T&E	Threatened and Endangered (species)
WEPS	Wind Erosion Prediction System
WHEG	Wildlife Habitat Evaluation Guide
WINPST	Windows Pesticide Screening Tool
WLFW	Working Lands for Wildlife
WQM	Water Quality Management Services



## Appendix B: Resource Stewardship Inventory Flow

The Resource Stewardship Inventory Flow provides an overview of what information is captured in the inventory from beginning to end. The field boundary, inventory, integrated pest management (IPM), nutrient management, terrestrial habitat, and irrigation information is most critical to capture. You can select “No” or “Not Applicable” for conservation practices and aquatic habitat. However, completing those sections (if applicable) offers a more robust and thorough evaluation.


Field Boundary	<ul style="list-style-type: none"> <li>- Soils info</li> <li>- Climate info</li> </ul>
Inventory <ul style="list-style-type: none"> <li>• Irrigation</li> <li>• Drainage</li> <li>• Gully Erosion</li> </ul>	<ul style="list-style-type: none"> <li>- Finalize threshold analysis</li> <li>- Gully evaluation complete</li> </ul>
Conservation Practices & Management Techniques	<ul style="list-style-type: none"> <li>- Builds management points toward all indicators</li> <li>- Soil. sediment evaluation complete</li> </ul>
Nutrient Management <ul style="list-style-type: none"> <li>• 4Rs (Right Source, Right Rate, Right Time, Right Place)</li> </ul>	<ul style="list-style-type: none"> <li>- Builds management points toward all indicators</li> <li>-</li> </ul>
IPM <ul style="list-style-type: none"> <li>• IPM Questions</li> </ul>	<ul style="list-style-type: none"> <li>- Builds management points toward pesticide indicators</li> </ul>
WINPST <ul style="list-style-type: none"> <li>• Pesticides and Methods</li> </ul>	<ul style="list-style-type: none"> <li>- Builds management points toward pesticide indicators</li> <li>- Pesticide evaluation complete</li> </ul>
Irrigation <ul style="list-style-type: none"> <li>• Irrigation Management Questions</li> </ul>	<ul style="list-style-type: none"> <li>- Irrigation evaluation complete</li> </ul>
Habitat <ul style="list-style-type: none"> <li>• Terrestrial Questions</li> <li>• Aquatic Questions</li> </ul>	<ul style="list-style-type: none"> <li>- Habitat evaluation complete</li> </ul>





# Appendix C: Usage Detail Report and Hydrologic Unit Codes

Usage reports are available in RS. Access to reporting is controlled by NRCS zRoles (an RS reporting role in zRoles is required). Users with access can constrain reports by date, land use, operation type, subsets of their jurisdiction, and hydrologic unit codes (HUCs).

RESOURCE STEWARDSHIP A CDSI Solution

Session Expires in 20 Minutes

Search

Usage Detail Report

Inventory

Aquatic Habitat

Terrestrial Habitat

Crop Rotation

About

Evaluation Detail Filters

From Date: To Date:

Select Land Use/Operation Type Filter: --

When no Land Use or Operation Type filter is selected, then All Land Uses and All Operation Types will be returned in the report.

State and County Filters

Select the State(s) and County(s) to filter the results in the report OR leave the parameters blank to return data for all the evaluations based on your jurisdiction permissions.

State: -- County: --

HUC Filters

If a HUC is selected that is outside of your jurisdiction then no results will be returned for that HUC in the report.

HUC: [HUC Selection](#)

Download Report

A hydrological code or hydrologic unit code is a sequence of numbers or letters that identify a hydrological feature like a river, river reach, lake, or area like a drainage basin (also called watershed or catchment). HUCs are available as a geospatial layer in NRT.

Boundary map of an HUC feature



Any of the 6 HUC levels may be specified in RS (region, subregion, basin, subbasin, watershed, and subwatershed). The table below shows examples of these 6 different levels and their HUCs.

Name	Level	Digits	Average size (square miles)	Number of HUs (approximate)	Example name	Example code (HUC)
Region	1	2	177,560	21	Pacific Northwest	17
Subregion	2	4	16,800	222	Lower Snake	1706
Basin	3	6	10,596	370	Lower Snake	170601
Subbasin	4	8	700	2,200	Imnaha River	17060102
Watershed	5	10	227 (40,000–250,000 acres)	22,000	Upper Imnaha River	1706010201
Subwatershed	6	12	40 (10,000–40,000 acres)	160,000	South Fork Imnaha River	170601020101

HUC data is visible to RS users in the following locations: the PLU inventory page, evaluation report headers, and the HUC column on the usage detail report.

PLU Inventory

PLU Inventory

Online Help: Go to [Crop Inventory Help](#)

Note: All fields are required unless otherwise noted.

Level: 

National Resource Stewardship

r

i

:

15

in.

d

i

:

YES

Guide

ation:

YES

els):

c. Banks are moderately stable, protected by roots of natural vegetation, wood, or rock or a combination of materials. Limited number

Save

Hydrologic Unit Codes

HUC	Region	Sub Region	Basin	Sub Basin	Watershed	Sub Watershed
050500021002	Ohio Region	Kanawha	Kanawha	Middle New	Bluestone Lake-New River	Lick Creek-Bluestone Lake

Resource Stewardship – Pasture Evaluations

67

## Evaluation Report Headers

**Evaluation:** CW Bench Crop **Evaluation Date:** 06/11/2018  
**Benchmark:** YES **Grazed:** YES **Result Type:** Standard  
**Land Unit:**  **Land Use:** Crop **HUC:** 050500021002  
**State:**  **County:**   
**Client:**   
**Planner:**   
**Planner Contact:** USDA HEADQUARTERS FACILITY (105198)  
1400 INDEPENDENCE AVE SW, WASHINGTON, DC 20250-0002  
(202) 720-4297

## HUC Column on the Usage Detail report

**Resource Concern Point Details** **Usage Detail Report**

**From Date:** 05/01/2018 **To Date:** 06/01/2018  
**Select Land Use/Operation Type Filter:** Land Use

**Land Use:** ☐ Associated Ag Land ☒ Forest  
☒ Crop ☐ Pasture  
☐ Farmstead ☐ Range

**State and County Filters**

Select the State(s) and County(s) to filter the results in the report OR leave the parameters blank to return data for all the evaluations based on your jurisdiction permissions.

**State:** Wyoming  **County:** --

**Selected State/County Filters**

State	County
Colorado	Arapahoe <input type="button" value="X"/>
Colorado	Larimer <input type="button" value="X"/>
Wyoming	-- <input type="button" value="X"/>

**HUC Filters**

If a HUC is selected that is outside of your jurisdiction then no results will be returned for that HUC in the report.

**HUC:**

**Selected HUC Filters**

HUC	Region	Sub Region	Basin	Sub Basin	Watershed	Sub Watershed
140100	Upper Colorado Region	Colorado Headwaters	Colorado Headwaters	--	--	-- <input type="button" value="X"/>

[Download Report](#)



Users can search for HUCs or enter them directly into the Usage Detail Report.

HUC Search

Hydrologic Unit Code (HUC)

If you already know the HUC code, you may enter it directly.  
Alternatively, use the menus below to drill down to the desired HUC level.  
Select the Done button when you have identified a 2, 4, 6, 8, 10 or 12 digit HUC.

HUC Code:

Search By Code

HUC Region:

01 New England Region

02 Mid Atlantic Region

03 South Atlantic-Gulf Region

04 Great Lakes Region

05 Ohio Region

06 Tennessee Region

07 Upper Mississippi Region

08 Lower Mississippi Region

09 Souris-Red-Rainy Region

Done

Cancel

HUC Search

Hydrologic Unit Code (HUC)

If you already know the HUC code, you may enter it directly.  
Alternatively, use the menus below to drill down to the desired HUC level.  
Select the Done button when you have identified a 2, 4, 6, 8, 10 or 12 digit HUC.

HUC Code:

050500

Search By Code

HUC Region:

05 Ohio Region

HUC Sub Region:

05 Kanawha

HUC Basin:

00 Kanawha

HUC Sub Basin:

01 Upper New

02 Middle New

03 Greenbrier


04 Lower New

05 Gauley

06 Upper Kanawha

Done

Cancel

Resource Stewardship – Pasture Evaluations

69



USDA is an equal opportunity  
provider, employer, and lender.

